

CODE ANALYSIS

APPLICABLE CODES			
	Year		Year
International Building Code	2003	National Electrical Code	2005
International Mechanical Code	2003	Uniform Code for Building Conservation	1997
International Plumbing Code	2003	ADA Accessibility Guidelines	2003
International Fire Code	2003		
International Energy Conservation Code	2003		

A. Occupancy and Group: S-2 B A

Change in Use: Yes X No Mixed Occupancy: Yes X No

Special Use and Occupancy (e.g. High Rise, Covered Mall): N/A

B. Seismic Design Category: EXIST. Design Wind Speed: 90 mph

C. Type of Construction (circle one):
I A I B II A II B III A III B IV HT V A V B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):
North: 3 HR. South: 3 HR. East: 3 HR. West: 3 HR. (masonry walls)

E. Mixed Occupancies: YES Nonseparated Uses: NO

F. Sprinklers: NONE
Required: Provided: Type of Sprinkler System:

G. Number of Stories: 1 Building Height: 25'

H. Actual Area per Floor (square feet): B = 6,300 sf A-3 = 8182 sf S-2 = 3,600 sf

I. Tabular Area: A-3 =9,500 sf, B =19,000 sf, S-2 =26,000 sf

J. Area Modifications:
a) $A_a = A_t + \left[\frac{A_t I_f}{100} \right] + \left[\frac{A_t I_s}{100} \right]$ $I_f = 100 \left[\frac{F}{P} - 0.25 \right] \frac{W}{30}$
'B' PORTION: $A_a = 19000 + 19000 \times .75 = 19000 + 7125 = 33250$ sf
'A-3' PORTION: $A_a = 9500 + 9500 \times .75 = 9500 + 7125 = 16625$ sf
'S-2' PORTION: $A_a = 26000 + 26000 \times .75 = 26000 + 19500 = 45500$
b) Sum of the Ratio Calculations for Mixed Occupancies:

Actual Area	≤ 1	'B' PORTION:	6300 / 33250 =0.198
Allowable Area		'A-3' PORTION:	8182 / 16625 =0.49
		'S-2' PORTION:	3600 / 45500 =0.079
TOTAL			0.76 ≤ 1

c) Total Allowable Area for:
1) One Story: 18,060 sf
2) Two Story: A_a (2) _____
3) Three Story: A_a (3) _____
d) Unlimited Area Building: Yes No Code Section: _____

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Existing Exterior Bearing Walls	3	U904	Floors – Ceiling Floors	N/A	
Interior Bearing Walls	3	U904	Roofs – Ceiling Roofs	NONE	
Exterior Non-Bearing Walls	3	U904	Exterior Doors and Windows	NONE	
Structural Frame	N/A		Shaft Enclosures	NONE	
Partitions – Permanent	1	U314	Existing Fire Wall	3	U904
Partitions – Permanent	2	U301	Fire Partitions	N/A	
Fire Barriers	N/A		Smoke Partitions	N/A	

L. Design Occupant Load: 523
Exit Width Required: 104" Exit Width Provided: 288" (8 3'-0" doors)

M. Minimum Number of Required Plumbing Facilities: (Assumed Occupancy 75% men and 25% women)
a) Water Closets – Required (m) 5 (f) 3 Provided (m) 5 (f) 3
b) Lavatories – Required (m) 3 (f) 2 Provided (m) 3 (f) 2
c) Bath Tubs or Showers: 1
d) Drinking Fountains: 1 Service Sinks: 1

FOOTNOTES:
1) In case of conflict with the U.S. Department of Justice Federal Registers Parts through X – ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
a) High Rise Requirements.
b) Atriums.
c) Performance Based Criteria.
d) Means or Egress Analysis.
e) Fire Assembly Locator Sheet.
f) Exterior and Interior Accessibility Route.
g) Fire Stopping, Including Tested Design Number.

ADDITIONS & REMODEL TO:
UTAH NATIONAL GUARD FACILITY

TOOELE ARMORY BUILDING

300 EAST VINE STREET
TOOELE, UTAH

DFCM PROJECT NO. 06193470

VINCENT DESIGN GROUP INC.

401 EAST 1700 SOUTH
SALT LAKE CITY, UTAH
(801) 484-2046

architects/planners

LEGEND & SYMBOLS

ACoust.	ACOUSTIC	SPEC.	SPECIFICATION
ADJ.	ADJUSTABLE	STL.	STEEL
ALUM.	ALUMINUM	TJI.	TRUSS JOIST
CER.TILE	CERAMIC TILE	REQ.	REQUIRED
CONC.	CONCRETE	W.C.	WATER CLOSET
CONT.	CONTINUOUS	U.N.O.	UNLESS NOTED OTHERWISE
DET.	DETAIL		
ELEV.	ELEVATION		
EXIST/EX.	EXISTING		
EXP.	EXPANSION		
FLR.	FLOOR	P/L	PROPERTY LINE
F.D.	FLOOR DRAIN	FGE.	FINISH GRADE ELEVATION
GALV.	GALVANIZED	TBC.	TOP OF CURB ELEVATION
GA.	GAUGE	TCE.	TOP OF CONCRETE ELEVATION
GYP. BD.	GYP SUM BOARD	FFE.	FINISH FLOOR ELEVATION
INSUL.	INSULATION	G	GAS LINE
MAX.	MAXIMUM	SS	SANITARY SEWER LINE
MM	MINIMUM	W	WATER LINE
MTL.	METAL	T	TELEPHONE LINE
N. I. C.	NOT IN CONTRACT	P	POWER LINE
OPN'G	OPENING		
REINF.	REINFORCED		
SHT.	SHEET		
O.C.	ON CENTER		

	WOOD FRAMED WALLS		WINDOW NUMBERS
	CONCRETE		DOOR NUMBERS
	ACOUSTIC TILE		DETAIL NUMBER
	GYP SUM BOARD		DETAIL
	BRICK VENEER		SECTION LETTER
	RIGID INSULATION		SECTION OR ELEVATION
	WOOD DIMENSIONAL LUMBER		SHEET NUMBER
	WOOD		

DRAWING INDEX :

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AE-101	DEMOLITION PLAN & NOTES
AE-102	PLOOR PLAN, SCHEDULES & DETAILS
AE-103	ELEVATIONS & DETAILS
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M-101	MECHANICAL DETAILS, SPECIFICATION, SCHEDULES & NOTES
E-1.1	ELECTRICAL NOTES & SCHEDULES
E-2.1	ELECTRICAL LIGHTING PLAN
E-3.1	ELECTRICAL POWER PLAN

APPROVALS:

Prime Agency	Date
DFCM	Date
APPROVAL DOES NOT RELIEVE A/E OF DESIGN LIABILITY	

VINCENT DESIGN GROUP, INC.
ARCHITECTS AND PLANNERS

401 EAST 1700 SOUTH, SALT LAKE CITY, UTAH (801) 484-2046

REMODEL TO:
NATIONAL GUARD ARMORY
TOOELE FACILITY

300 EAST VINE STREET
TOOELE, UTAH
TITLE SHEET, INDEX, SCHEDULES & LEGEND

ARCH. PROJECT NO: 06-55
DATE: 12/5/06
DRAWN BY: JOHN
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DESIGNED BY:
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SHEET TITLE

AS-101

ARCHITECTURAL

SPRINKLER SYSTEM NOTES:

1. PLACE NEW CONC. MOW STRIPS BETWEEN ALL SOD & GROUND COVER AREAS. SEE DETAIL THIS SHEET.
2. ALL AREAS WITH RIVER ROCK GROUND COVER TO RECEIVE DRIP TYPE IRRIGATION SYSTEM TIED BACK INTO TIMER AT BUILDING.
3. IRRIGATION SYSTEM IS TO BE DESIGN BUILT BY INSTALLATION CONTRACTOR AND IS TO COVER ALL LANDSCAPED AREAS. ALL AREAS TO BE RUN BY TIMER MOUNTED ON BUILDING. DESIGN AND LAYOUT ARE TO MEET ALL CITY CODES AND ORDINANCES.
4. PLACE STOP AND WASTE WITH BACKFLOW PREVENTER AT CONNECTION LOCATION TO MEET CITY ORDINANCES AND REGULATIONS.
5. DESIGN SYSTEM TO RUN ON 1" SUPPLY LINE. VERIFY PRESSURE AND FLOW PRIOR TO DESIGN AND PROVIDE SUBMITTAL SHOWING LAYOUT OF SPRINKLER SYSTEM PRIOR INSTALLATION
6. STAKE ALL TREES PER DETAIL BELOW.
7. SUBMIT RIVER ROCK SAMPLES FOR ARCHITECT APPROVAL PRIOR TO INSTALLATION.
8. ALL PLANTING ARE TO BE DROUGHT TOLERANT TYPE PLANT MATERIALS..
9. CONTROLLER TO BE "HUNTER" PRO C SERIES MULTIPLE STATION CONTROLLER, 3-CYCLE PROGRAMMABLE. LOCATE ON EXTERIOR WALL OF BUILDING AS INDICATED.
10. PLACE BACKFLOW PREVENTER AND PRESSURE REDUCER VALVE IN ACCESSIBLE PLASTIC BOX IN LANDSCAPED AREA.
11. SUBMIT TO OWNER WRITTEN DRAINING INSTRUCTIONS AND PROVIDE MANUAL DRAINS ACCESSIBLE PLASTIC BOX. PROVIDE BLOW-OUT NOZZLE ON EACH ZONE. SLOPE ALL LINE TO MANUAL DRAINS.
12. RUN ALL LINES IN SCHEDULE 40 PVC. SUPPLY LINE TO BE 1 1/4" TO VALVE BOXES.
13. ALL EQUIPMENT AND PARTS TO BE HUNTER, RAINBIRD OR TORO.

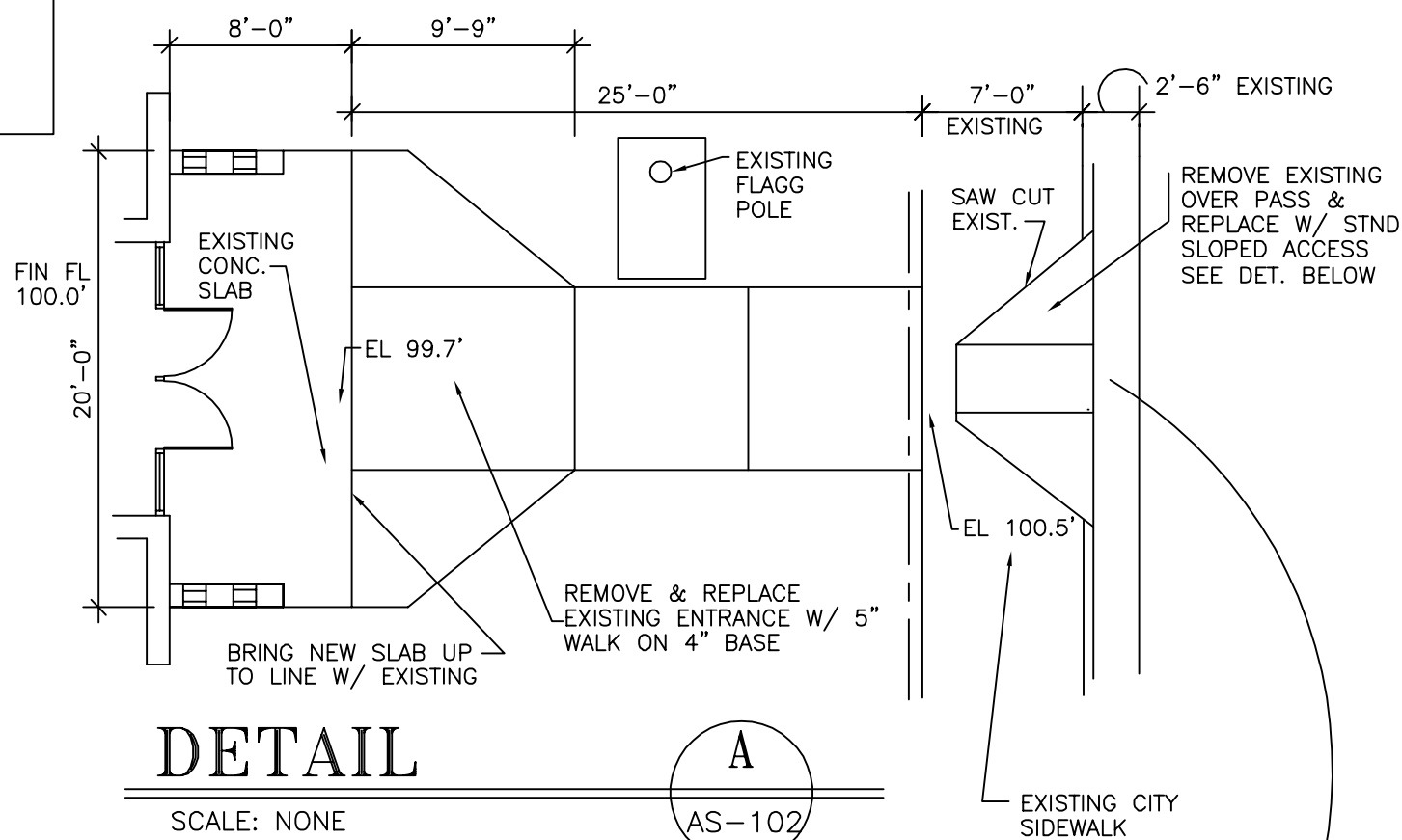
PLANTING LEGEND:

- 2" CALIPER TREE TO MEET CITY STANDARDS DESIGN BUILD AND SUBMIT PLANS TO CITY FOR APPROVAL PRIOR TO INSTALL. SEE DET. 10/SD2
- DROUGHT TOLERANT NATIVE SHRUBS. 5 GALLON SIZE TO BE DESIGN BUILD AND SUBMIT PLANS TO CITY FOR APPROVAL PRIOR TO INSTALL.
- NEW LANDSCAPING BOULDERS. 36" MIN. DIAMETER. LOCAL STONE TYPES. NO SANDSTONE.

- NOTES:
- ALL STOCK IS TO BE GUARANTEED FOR ONE YEAR FROM COMPLETION OF PROJECT (SUBSTANTIAL COMPLETION
- DESIGN BUILD PLANTING BY LANDSCAPE CONTRACTOR. MEET STATE STANDARDS. INCLUDE IN BID DRAWING OF PLANNED PLANTINGS AND SUBMITTAL TO ARCHITECT FOR APPROVAL.
- DESIGN BUILD SPRINKLER SYSTEM TO FIT SITE AND ALL PLANTINGS. SUBMIT SCALED LANDSCAPE DRAWING FOR APPROVAL.
- MEET ALL STATE STANDARDS FOR SPRINKLER SYSTEM INCLUDING BACKFLOW DEVICES, STOP AND WASTES, ETC. FIELD VERIFY EXISTING CONDITIONS AND VERIFY WITH CITY FOR WATER REGULATIONS.

LANDSCAPE NOTES:

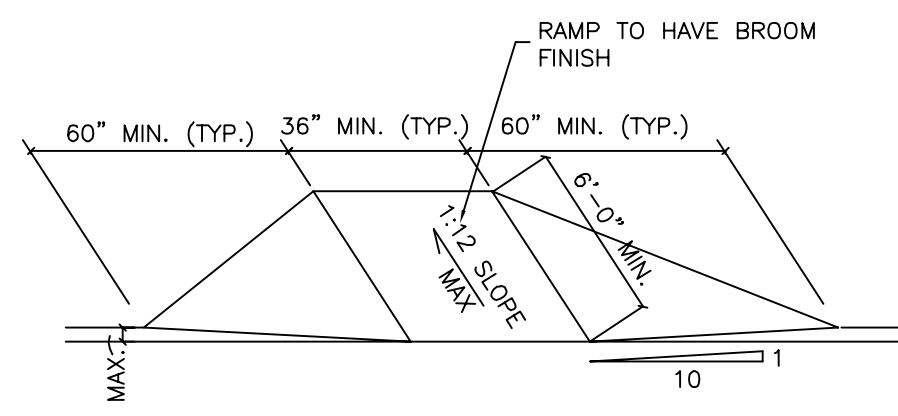
- ALL AREAS TO BE SPRINKLED AND BE CONTROLLED BY AUTOMATIC TIMER AND VALVES.
- ALL AREAS TO RECEIVE GROUND COVER TO HAVE WEED FABRIC AND PLACE DECORATIVE RIVER ROCK GROUND COVER.
- ALL AREAS WITH GROUND COVER TO BE PLANTED WITH SHRUBS AND BE IRRIGATED WITH DRIP TYPE SYSTEM TIED BACK TO TIMER AND CONTROLS.
- ALL SHRUBS TO BE 5 GALLON SIZE.
- ALL TREES TO BE 2" CALIPER AND HAVE RINGS WITH BARK TYPE GROUND COVER AND WEED FABRIC TO 2' OUT FROM TRUNK.
- DECORATIVE BOULDERS TO BE PLACED TO BE QUARTZITE 36" DIAM. MIN. BOULDERS AS SELECTED BY ARCHITECT.
- SOD AREAS ARE TO BE SODDED. NO SEEDING WILL BE ACCEPTED THIS PROJECT.
- ALL BORDERS BETWEEN SODDED AND NON-SODDED ARE TO RECEIVE CONCRETE 6" WIDE MOW STRIPS TO BE POURED IN PLACE.
- SUPPLY ONE YEAR GUARANTEE FOR ALL LANDSCAPING.
- FERTILIZE ALL NEW & EXISTING PLANTED AREAS.



DETAIL

SCALE: NONE

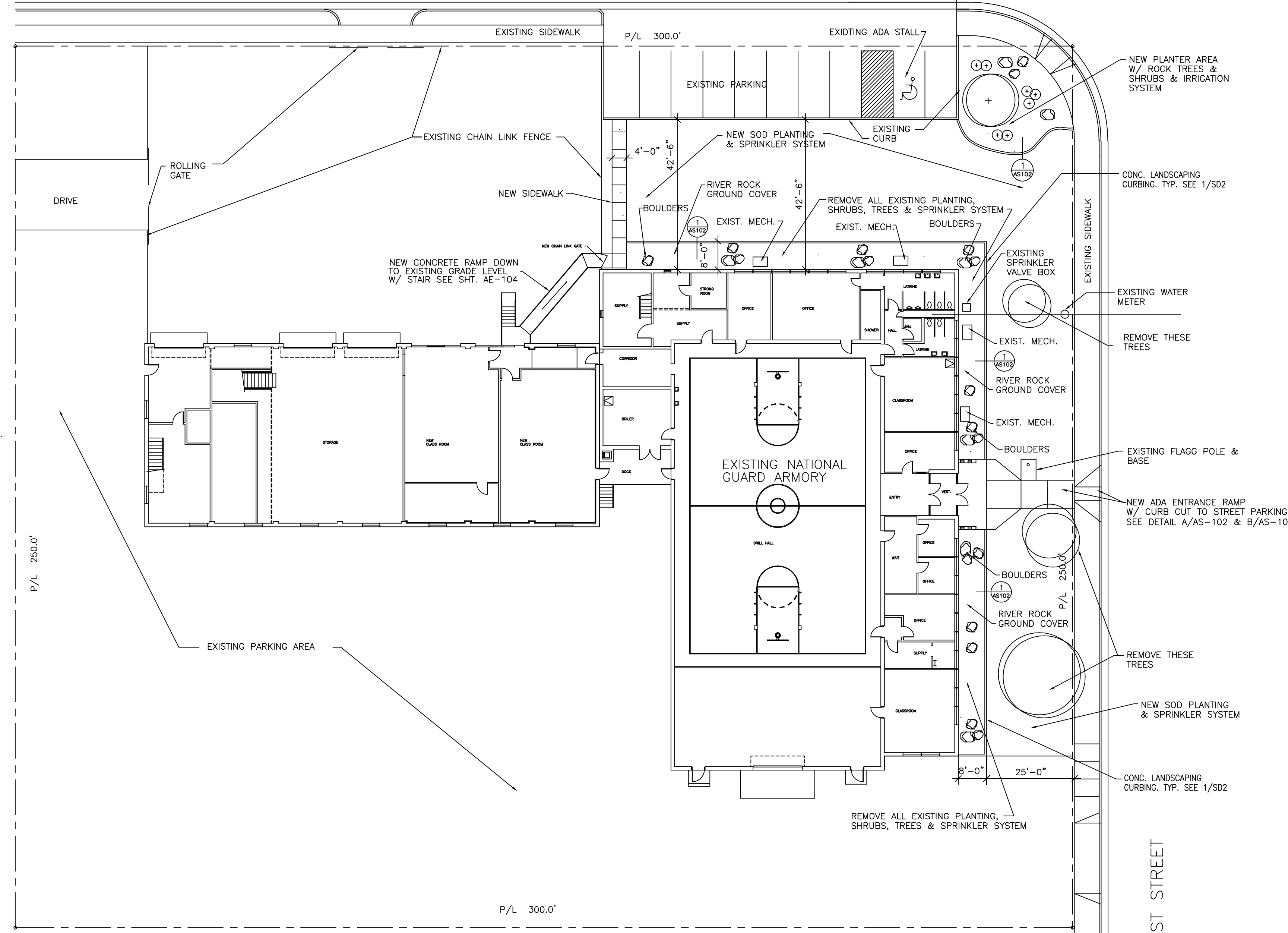
AS-102



DETAIL

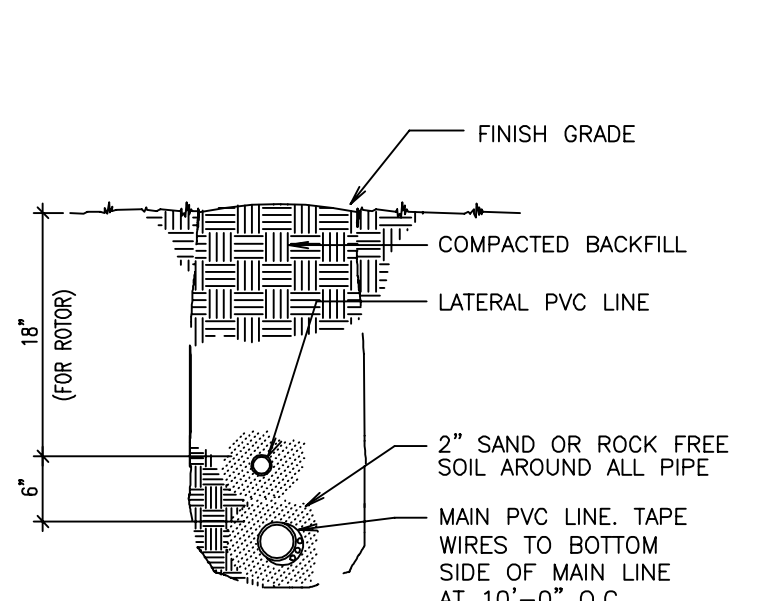
SCALE: 3/4" = 1'-0"

AS-102



SITE PLAN

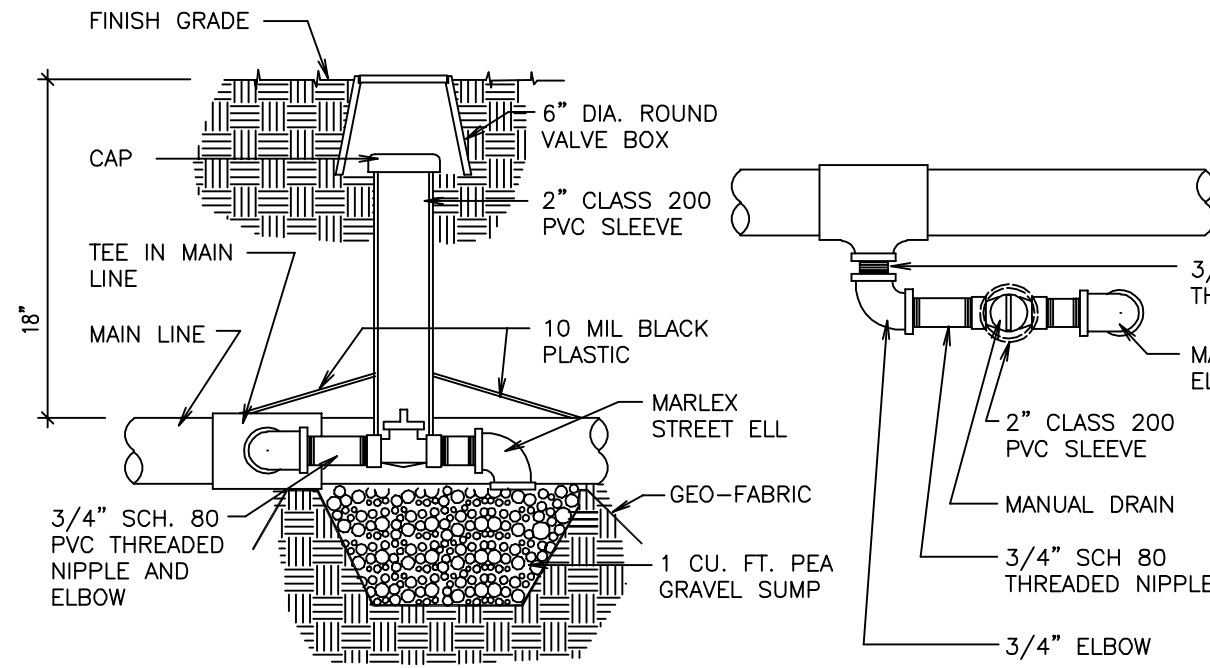
SCALE: 1"=20'-0"



TRENCH DETAIL

SCALE: NONE

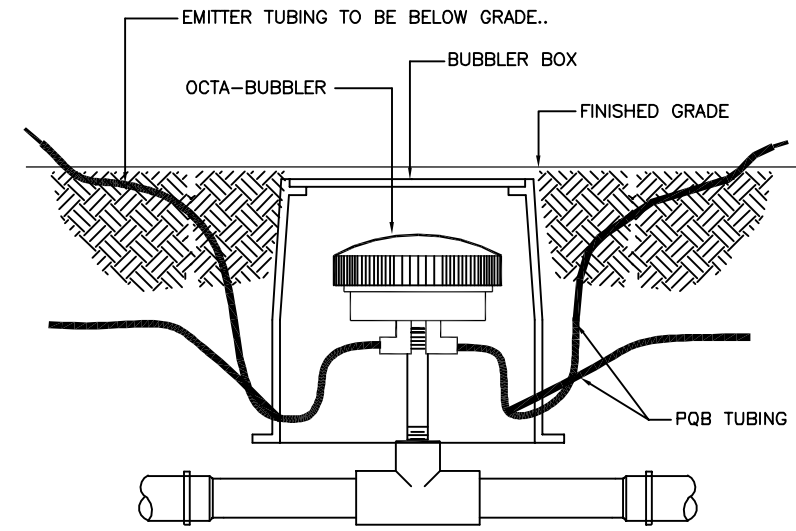
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MANUAL DRAIN DETAIL

SCALE: NONE

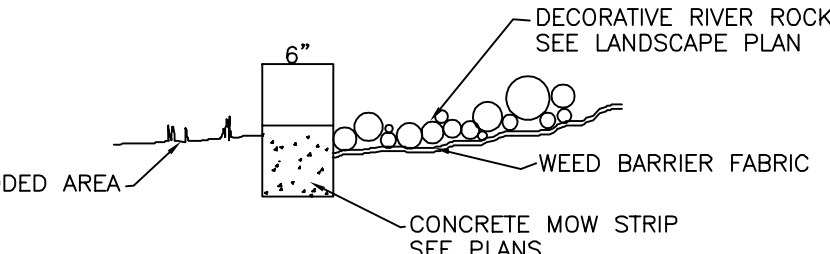
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DETAIL

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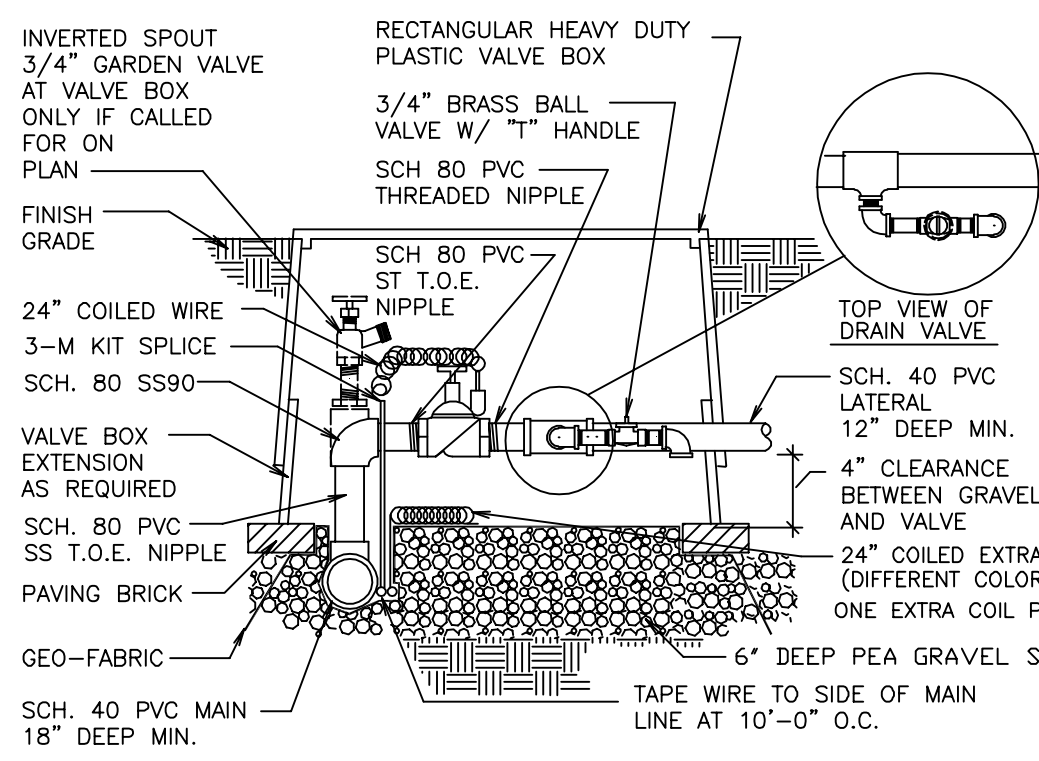
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MOW STRIP DETAIL

SCALE: 3/4" = 1'-0"

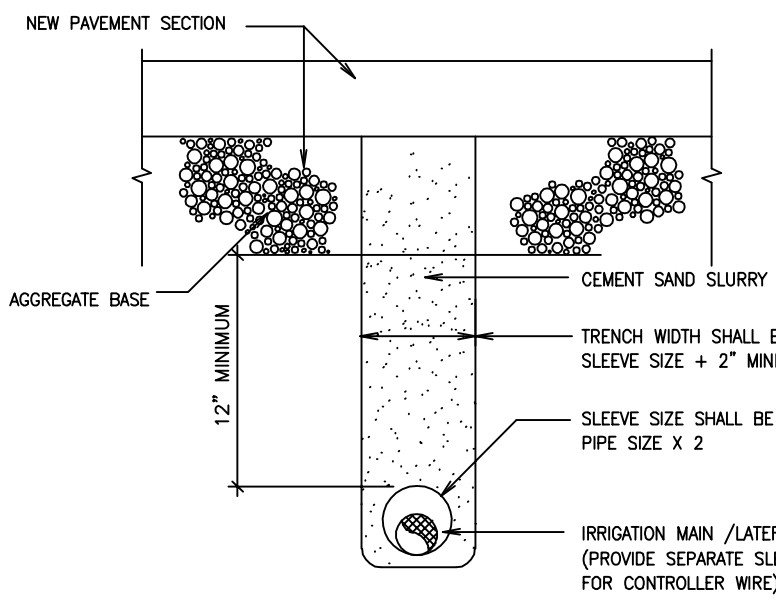
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VALVE BOX DETAIL

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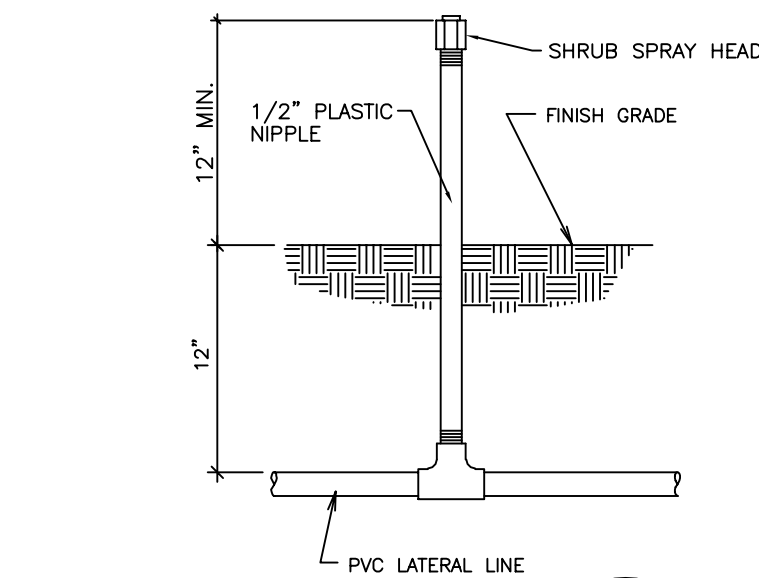
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DETAIL

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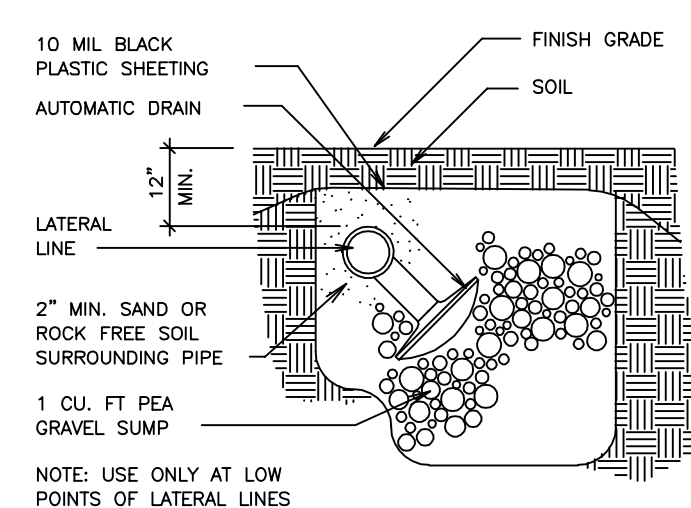
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DETAIL

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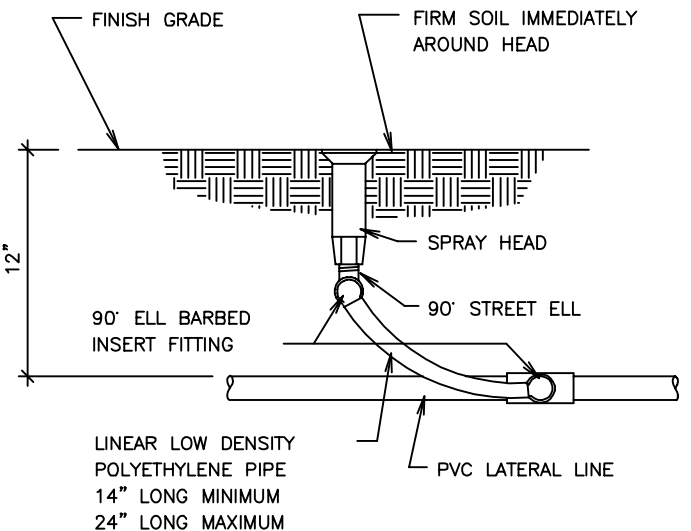
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DETAIL

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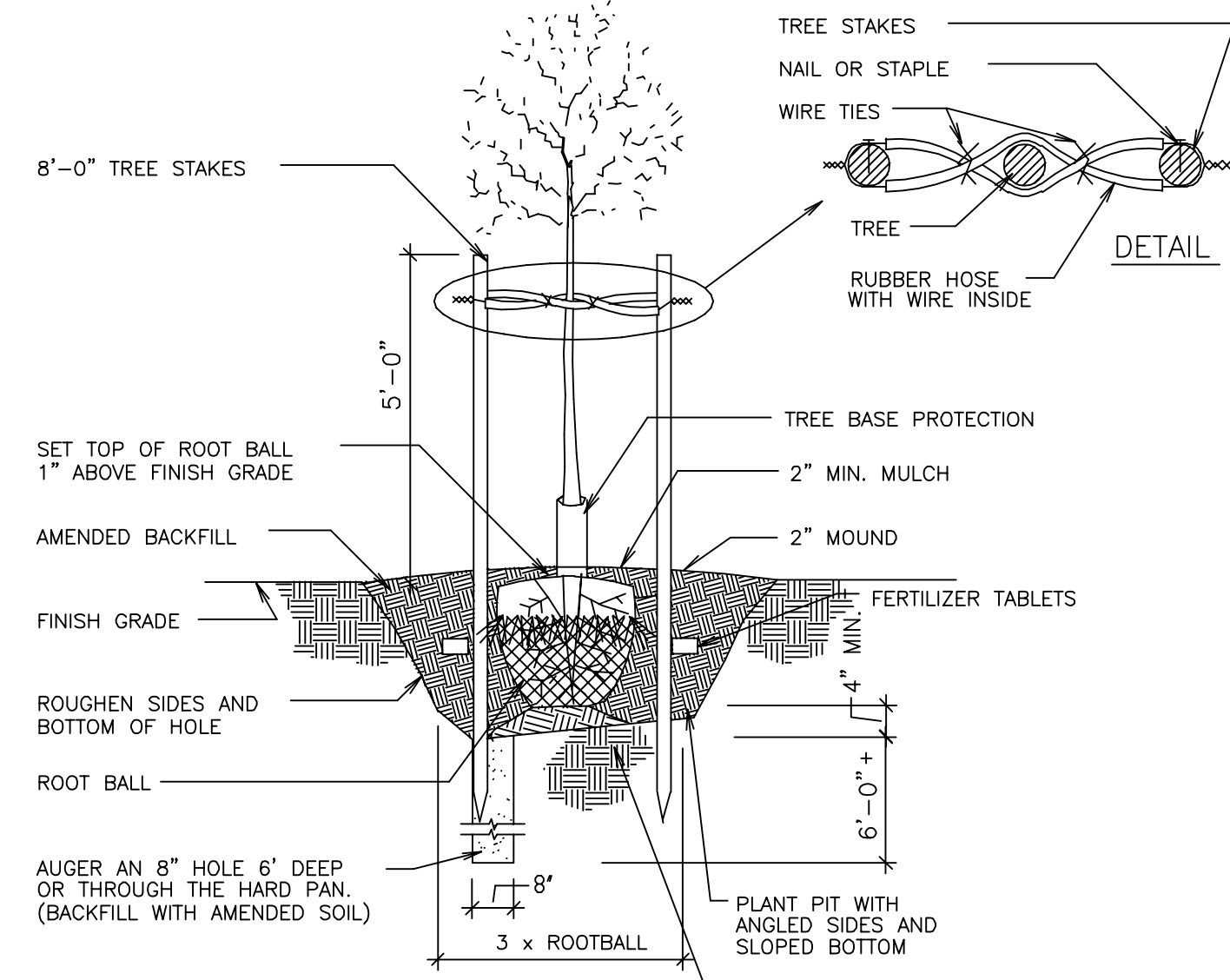
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DETAIL

SCALE: NONE

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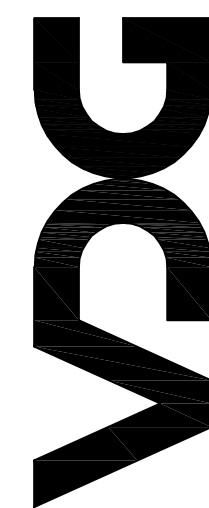


TREE STAKING DETAIL

SCALE: NONE

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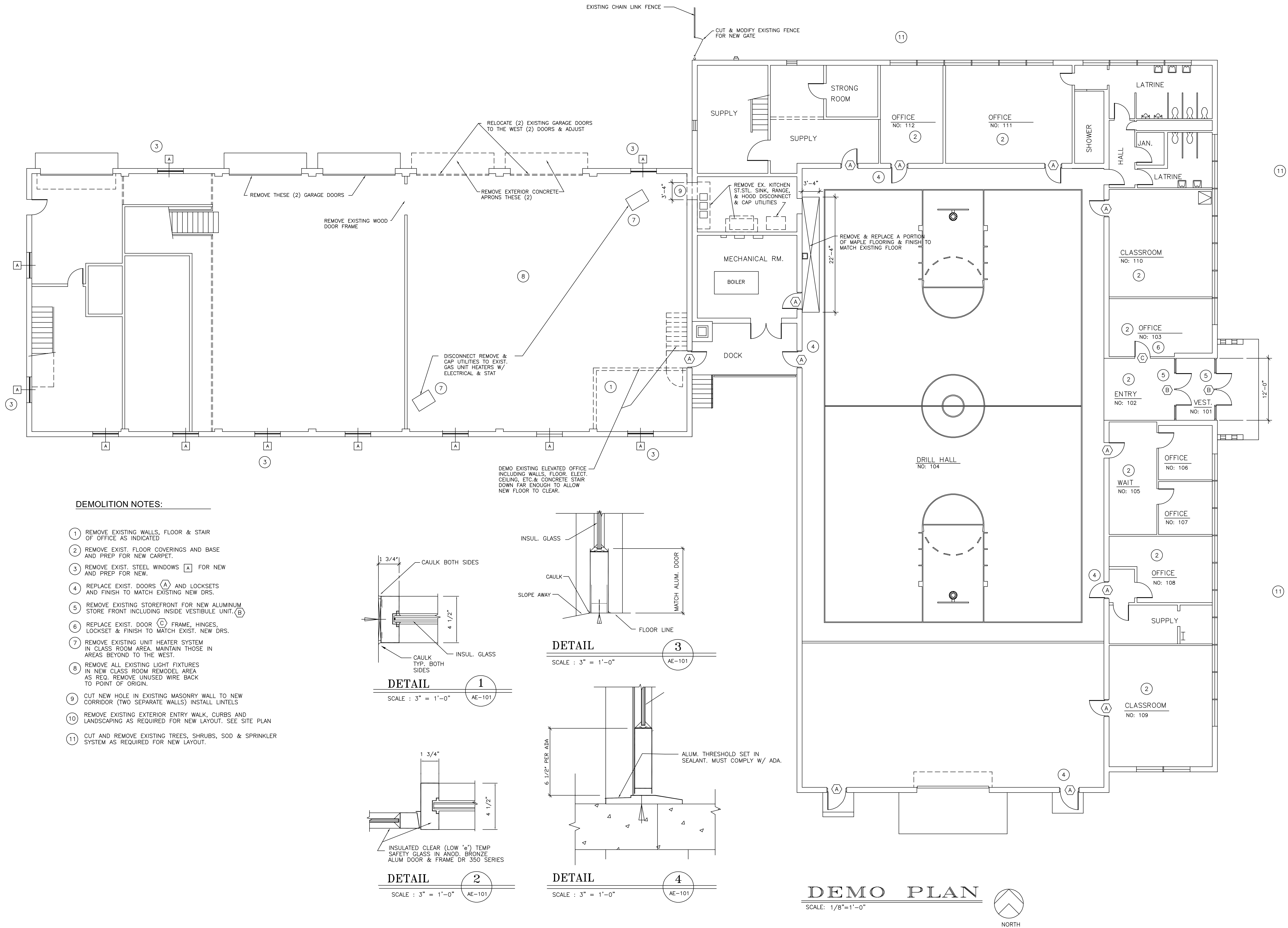
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TOOLE FACILITY
300 EAST VINE STREET
TOOLE, UTAH

SITE PLAN, DETAILS, SCHEDULES & NOTES

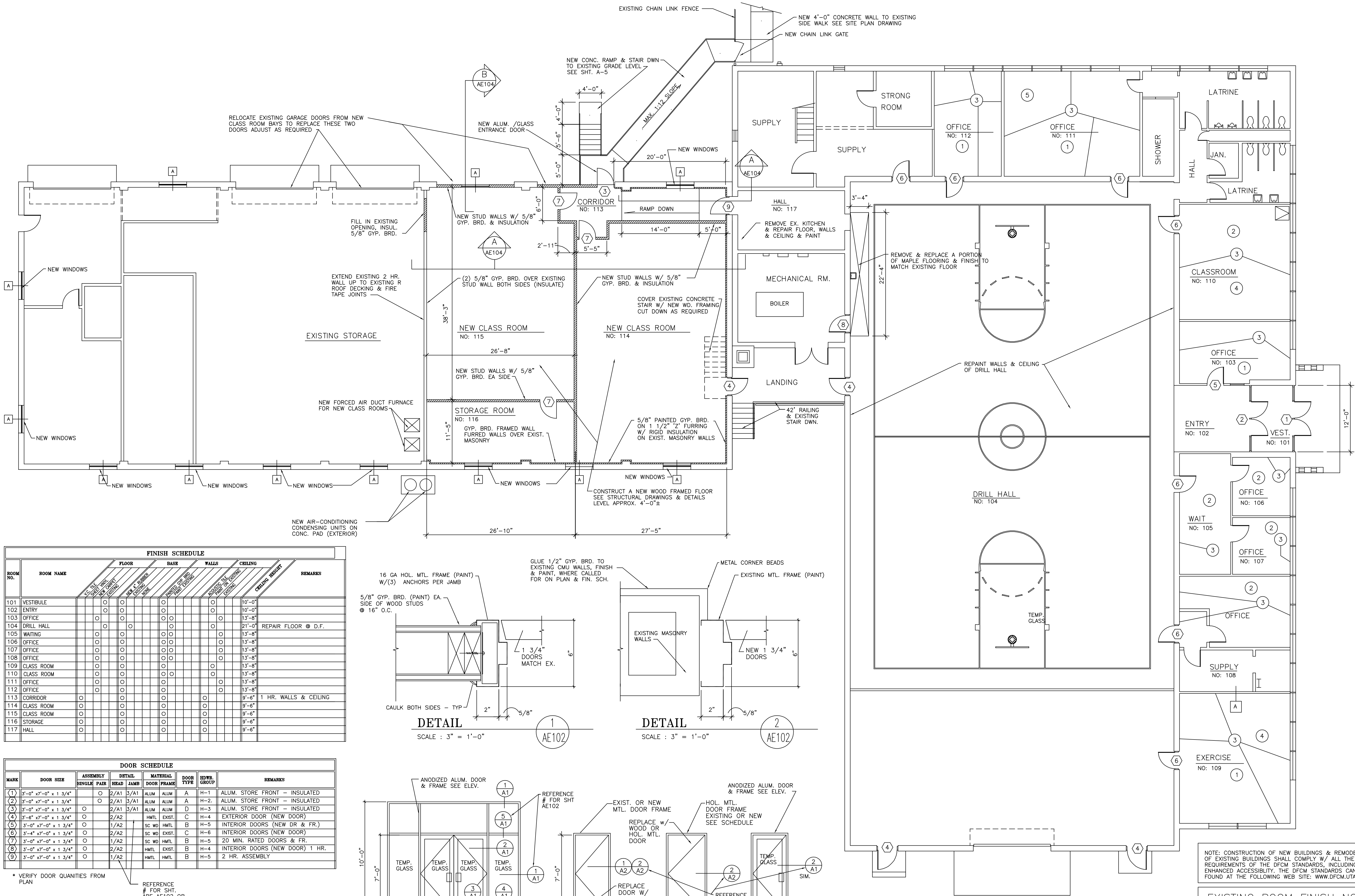
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FINISH SCHEDULE												
ROOM NO.	ROOM NAME	FLOOR		BASE		WALLS		CEILING		REMARKS		
		1/2" PLASTER WITH FIBER GLASS DOING	DOING	1" x 4" WOOD PLANK DOING	DOING	PAINTED OIL BRD DOING	DOING	PAINT DOING	PAINT DOING		ASSISTED 1/2" PLASTER DOING	CEILING HEIGHT
101	VESTIBULE		o	o		o		o		10'-0"		
102	ENTRY					o			o	10'-0"		
103	OFFICE		o	o		o		o		13'-8"		
104	DRILL HALL			o		o		o		21'-0"		REPAIR FLOOR @ D.F.
105	WAITING		o			o			o	13'-8"		
106	OFFICE		o	o		o		o		13'-8"		
107	OFFICE		o	o		o			o	13'-8"		
108	OFFICE		o	o		o			o	13'-8"		
109	CLASS ROOM		o	o		o		o		13'-8"		
110	CLASS ROOM		o	o	o	o				13'-8"		
111	OFFICE		o	o		o		o		13'-8"		
112	OFFICE		o	o		o			o	13'-8"		
113	CORRIDOR	o		o	o			o		9'-6"		1 HR. WALLS & CEILING
114	CLASS ROOM	o		o	o					9'-6"		
115	CLASS ROOM	o		o		o		o		9'-6"		
116	STORAGE	o		o		o				9'-6"		
117	HALL	o		o		o		o		9'-6"		

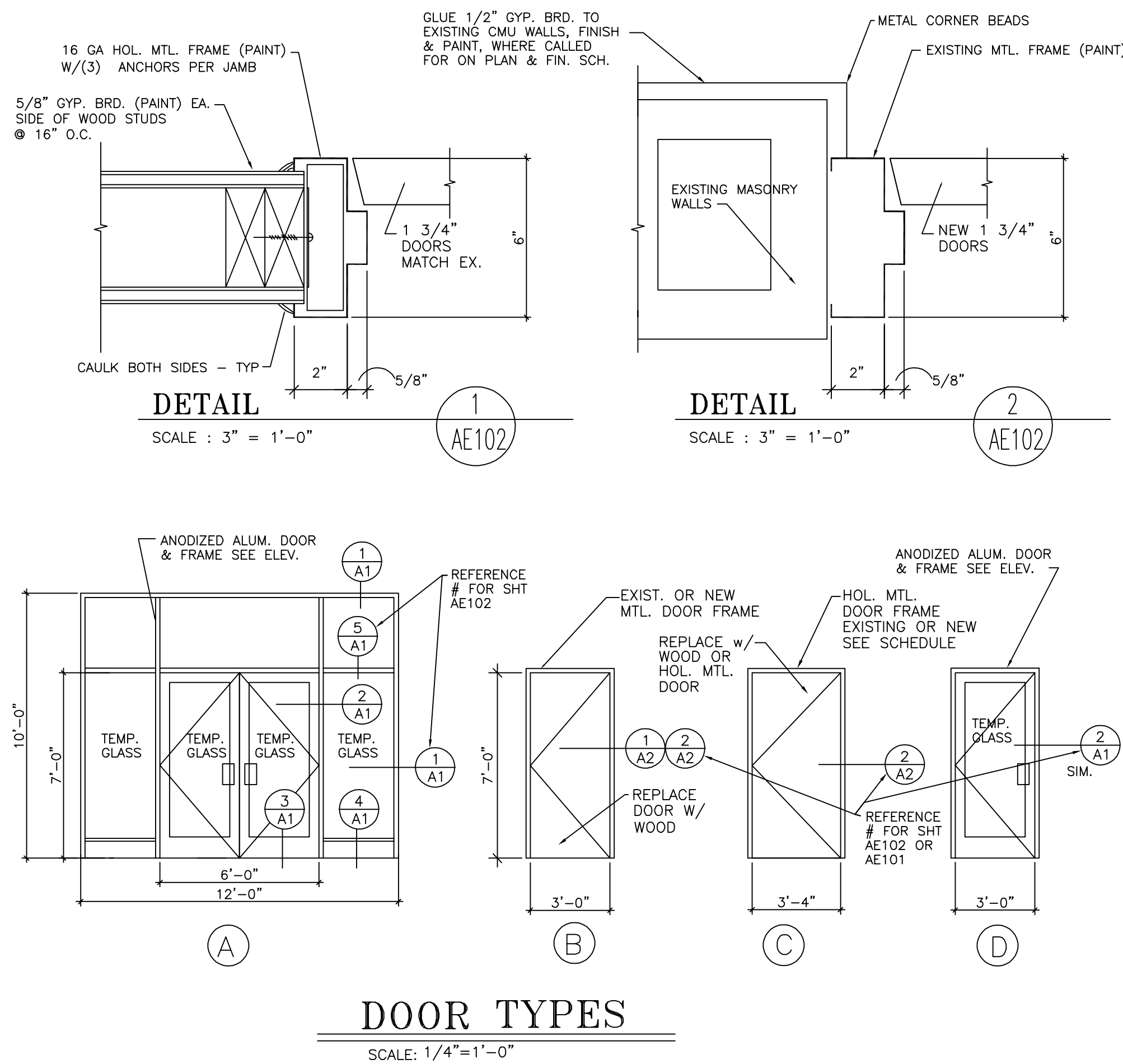
DOOR SCHEDULE									
MARK	DOOR SIZE	ASSEMBLY		DETAIL		MATERIAL		DOOR TYPE	HWR GROUP
		SINGLE	PAIR	HEAD	JAMB	DOOR	FRAME		
(1)	3'-0" x 7'-0" x 1 3/4"			2/A1	3/A1	ALUM.	ALUM.	A	H-1
(2)	3'-0" x 7'-0" x 1 3/4"			2/A1	3/A1	ALUM.	ALUM.	A	H-2
(3)	3'-0" x 7'-0" x 1 3/4"			2/A1	3/A1	ALUM.	ALUM.	D	H-3
(4)	3'-6" x 7'-0" x 1 3/4"			2/A2		HMTL.	EXIST.	C	H-4
(5)	3'-0" x 7'-0" x 1 3/4"			1/A2		SC WD.	HMTL.	B	H-5
(6)	3'-4" x 7'-0" x 1 3/4"			2/A2		SC WD.	EXIST.	C	H-6
(7)	3'-0" x 7'-0" x 1 3/4"			1/A2		SC WD.	HMTL.	B	H-5
(8)	3'-0" x 7'-0" x 1 3/4"			2/A2		HMTL.	EXIST.	B	H-4
(9)	3'-0" x 7'-0" x 1 3/4"			1/A2		HMTL.	HMTL.	B	H-5

* VERIFY DOOR QUANTITIES FROM PLAN

REFERENCE # FOR SHT. ARE AE102 OR AE101

HARDWARE SCHEDULE: SEE ALSO SPECIFICATIONS

H-1: ALUM. DOOR HARDWARE, WEATHER STRIP, CLOSER, EXIT PANIC, CYLINDER LOCK, THRESHOLD, BRONZE FIN.
H-2: ALUM. DOOR HARDWARE, WEATHER STRIP, CLOSER, CYLINDER LOCK, THRESHOLD, BRONZE FIN.
H-3: ALUM. DOOR HARDWARE, WEATHER STRIP, CLOSER, EXIT PANIC, CYLINDER LOCK, THRESHOLD, BRONZE FIN.
H-4: REUSE EXISTING HARDWARE, ADJUST AS REQUIRED
H-5: 1 1/2 PR. BUTTS - STANLEY - US260, LEVER TYPE LOCK SET, OFFICE FUNCTION (HEAVY DUTY), 3 SILENCERS
H-6: NEW LEVER TYPE LOCK SET PRIVACY FUNCTION (HEAVY DUTY), BALANCE EXISTING.



FLOOR PLAN

SCALE: 1/8"=1'-0"

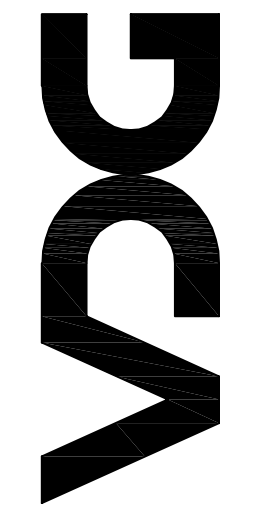


NOTE: CONSTRUCTION OF NEW BUILDINGS & REMODELING OF EXISTING BUILDINGS SHALL COMPLY W/ ALL THE REQUIREMENTS OF THE DFCM STANDARDS, INCLUDING ENHANCED ACCESSIBILITY. THE DFCM STANDARDS CAN BE FOUND AT THE FOLLOWING WEB SITE: WWW.DFCM.UTAH.GOV.

EXISTING ROOM FINISH NOTES

- 1) REMOVE EXISTING RUBBER BASE AND CARPETING.
- 2) REMOVE EXISTING RUBBER BASE AND PREPARE EXISTING TILE FLOOR FOR CARPET.
- 3) REMOVE EXISTING ELECT. COVER PLATES, ADD METAL EXTENSION RINGS FOR APPLICATION OF 1/2" FINISHED GYP. BRD. GLUED TO EXISTING BLOCK WALLS.
- 4) COVER EXISTING LIGHT FIXTURES & PAINT METAL CEILING.
- 5) REMOVE PLYWOOD PANELING THIS WALL FOR ADD. OF GYP. BRD. FINISH WALL.
- 6) REPAINT ANY WALLS & CEILINGS WHICH ARE GYP. BRD. OR METAL.

VINCENT DESIGN GROUP, INC.
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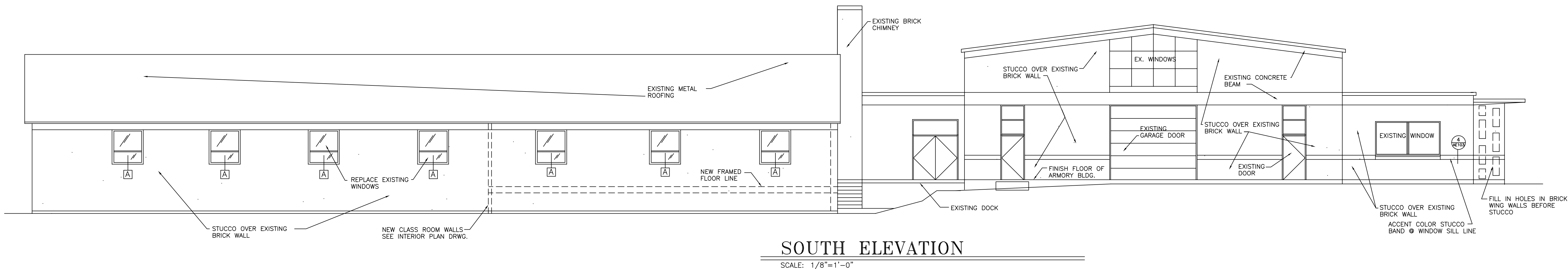
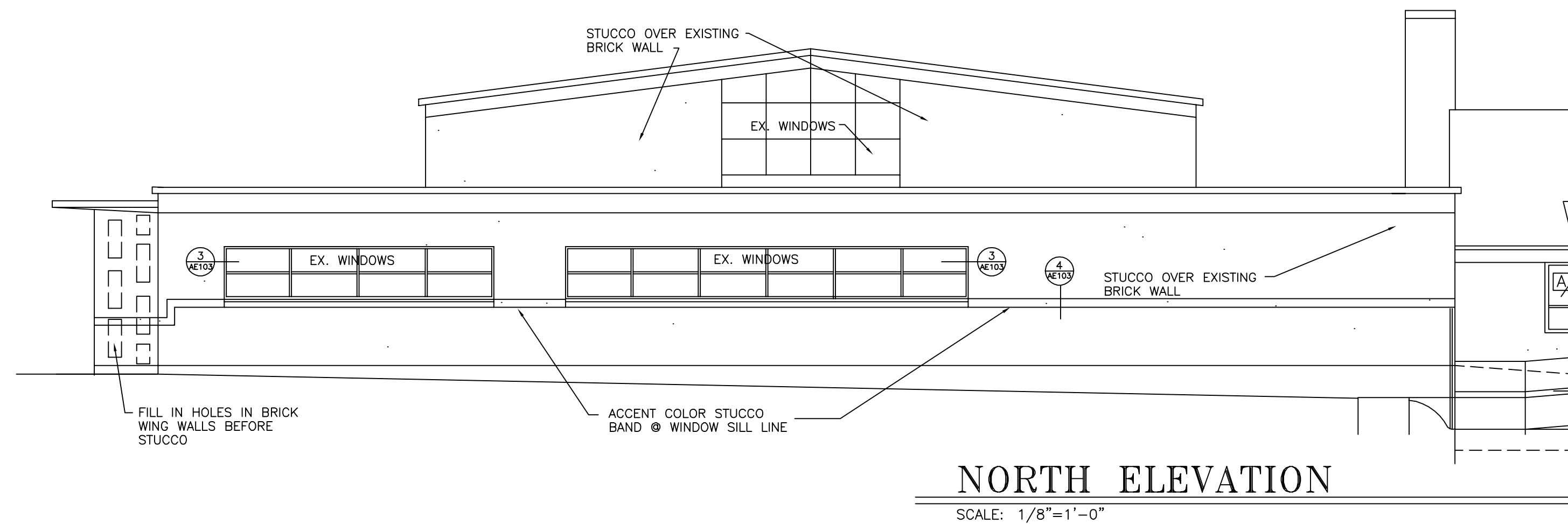
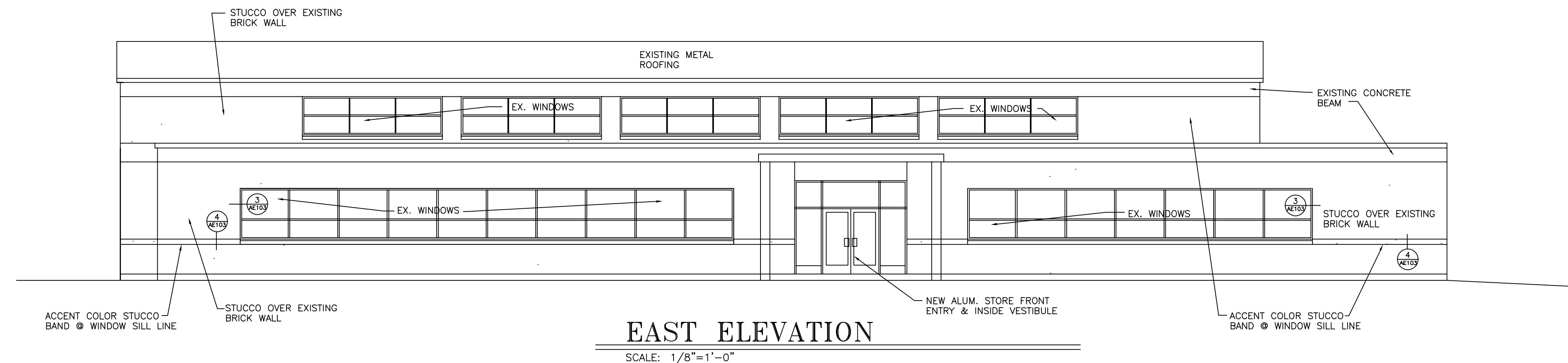
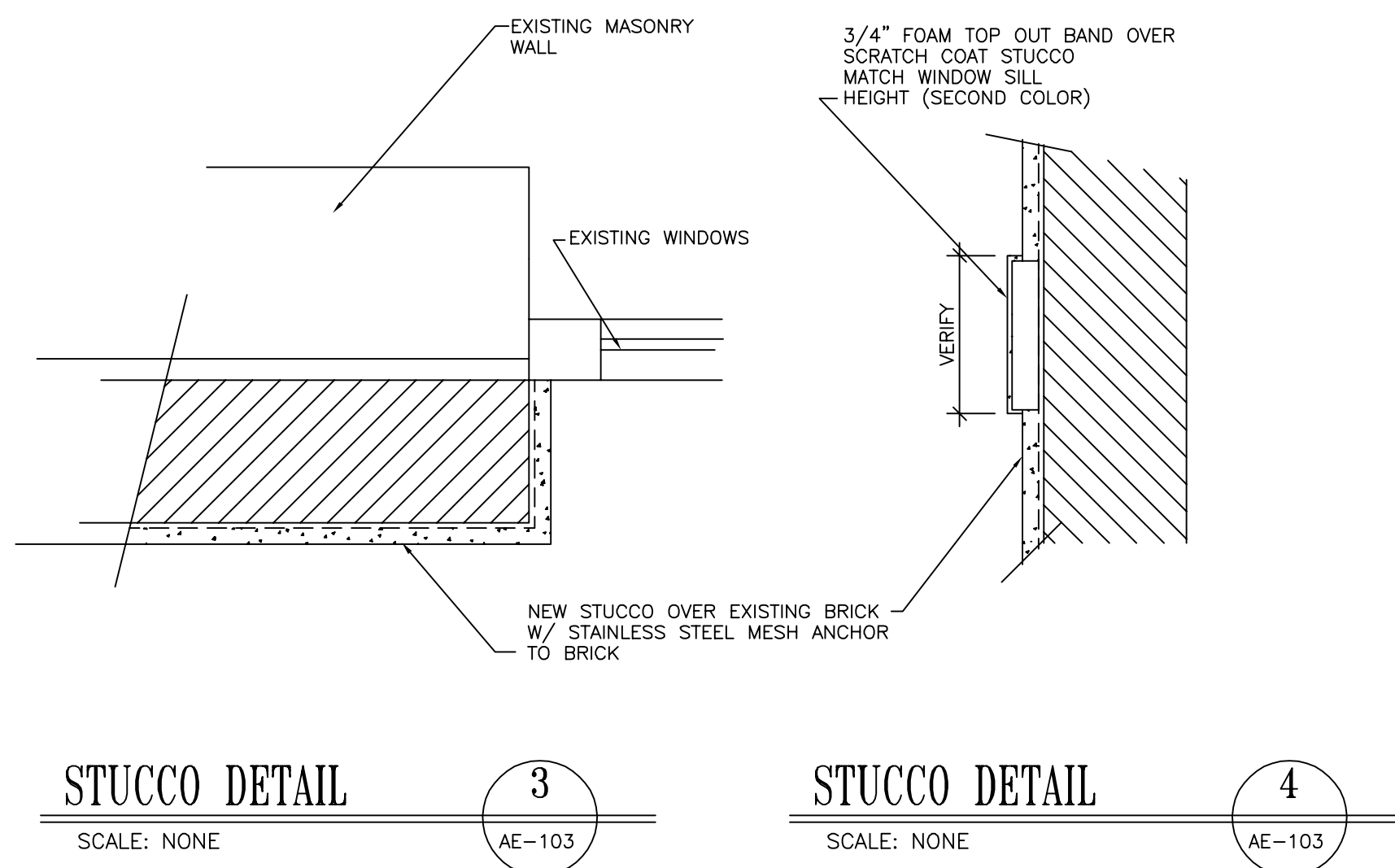
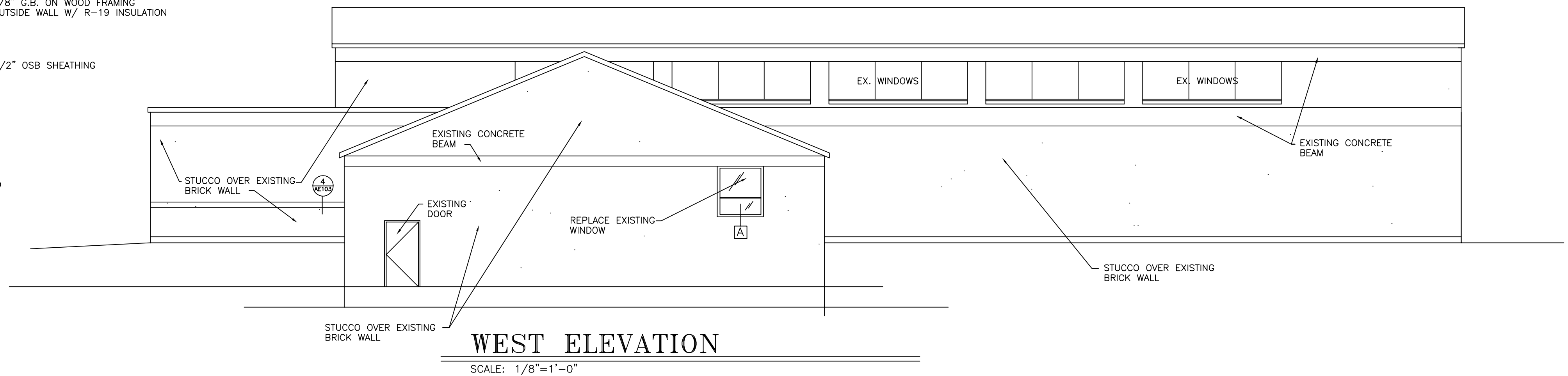
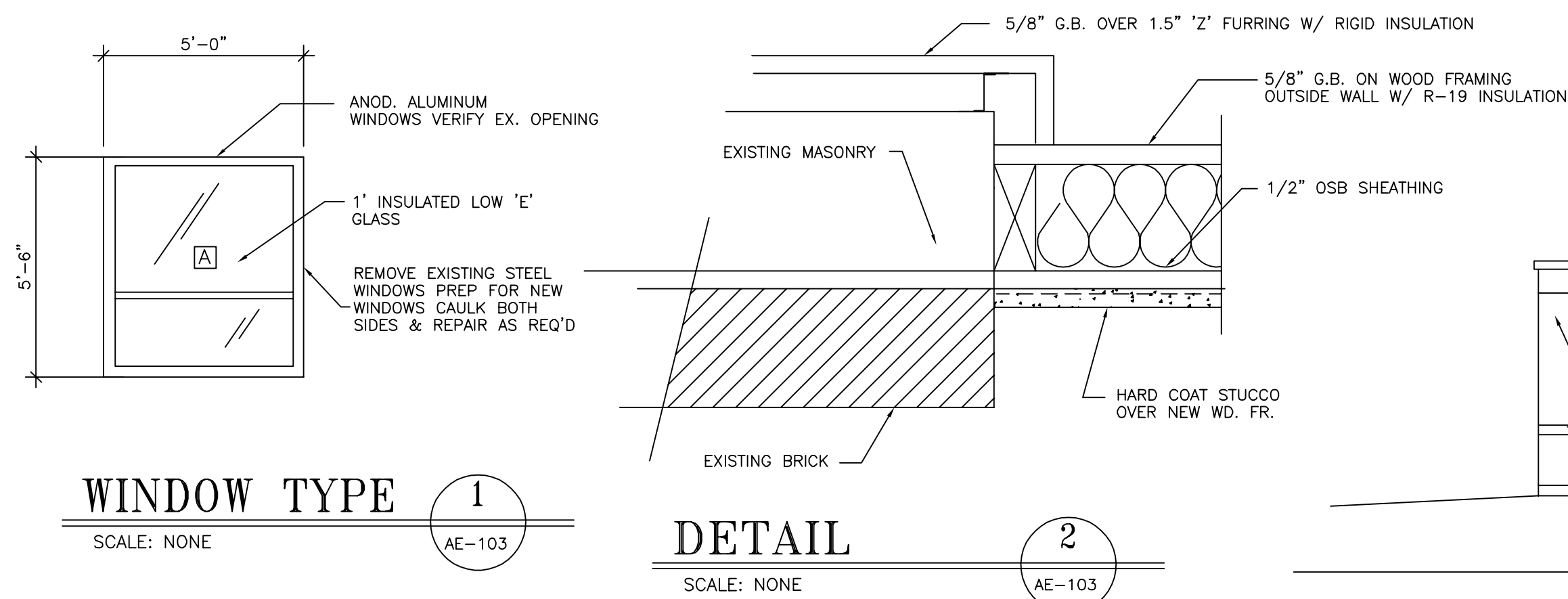
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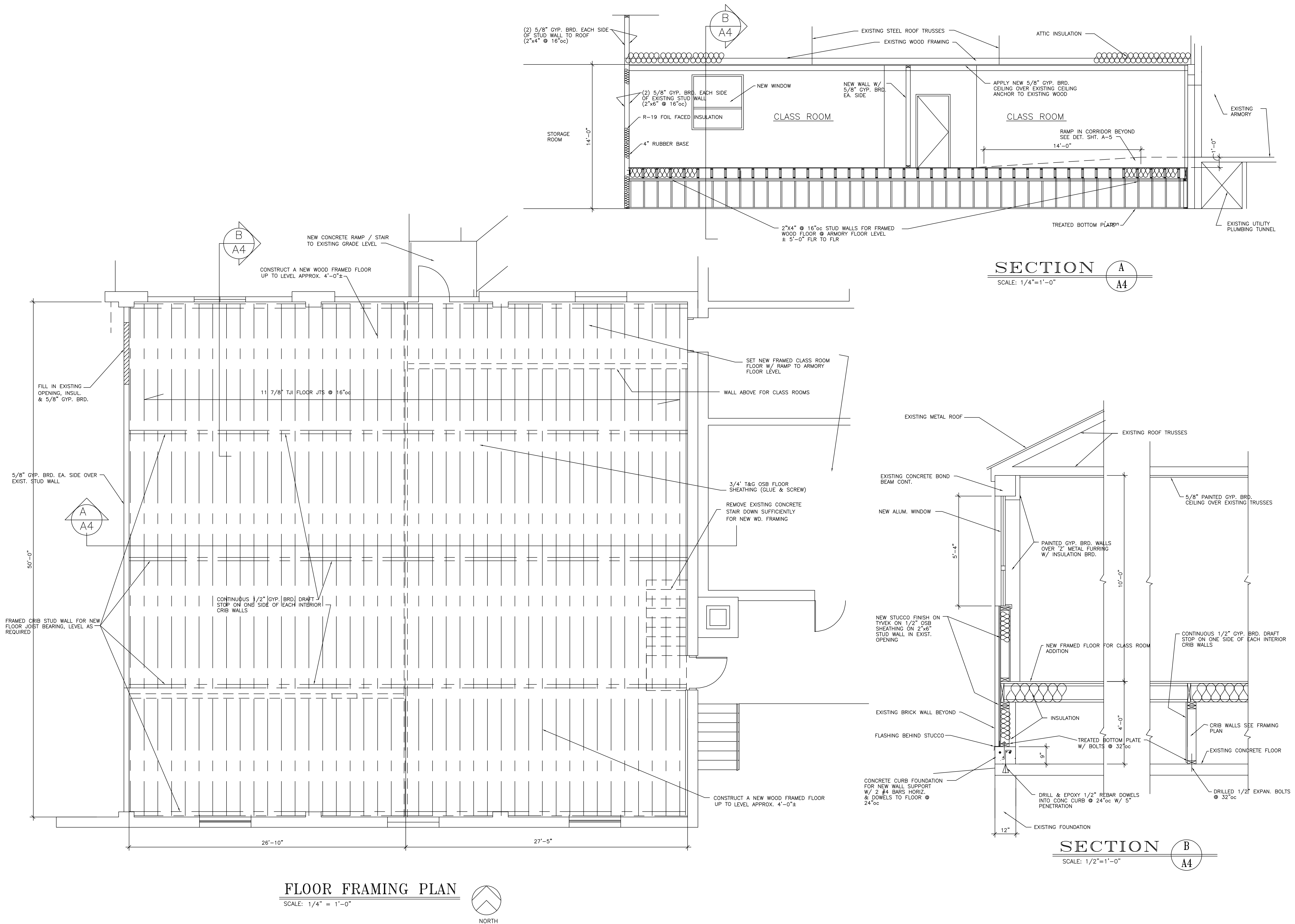
FLOOR PLAN, SCHEDULES & DETAILS

ARCH. PROJECT NO:06-55
DATE:12/5/06
DRAWN BY:JOHN
CHECKED BY:
DESIGNED BY:
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DATE	REVISION

SHEET TITLE
AE-102
ARCHITECTURAL





VINCENT DESIGN GROUP, INC.
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VDC

401 EAST 1700 SOUTH, SALT LAKE CITY, UTAH (801) 484-2046

REMODEL TO:

**NATIONAL GUARD ARMORY
TOOELE FACILITY**

300 EAST VINE STREET
TOOELE, UTAH

FLOOR FRAMING & SECTIONS

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DATE:11/22/06
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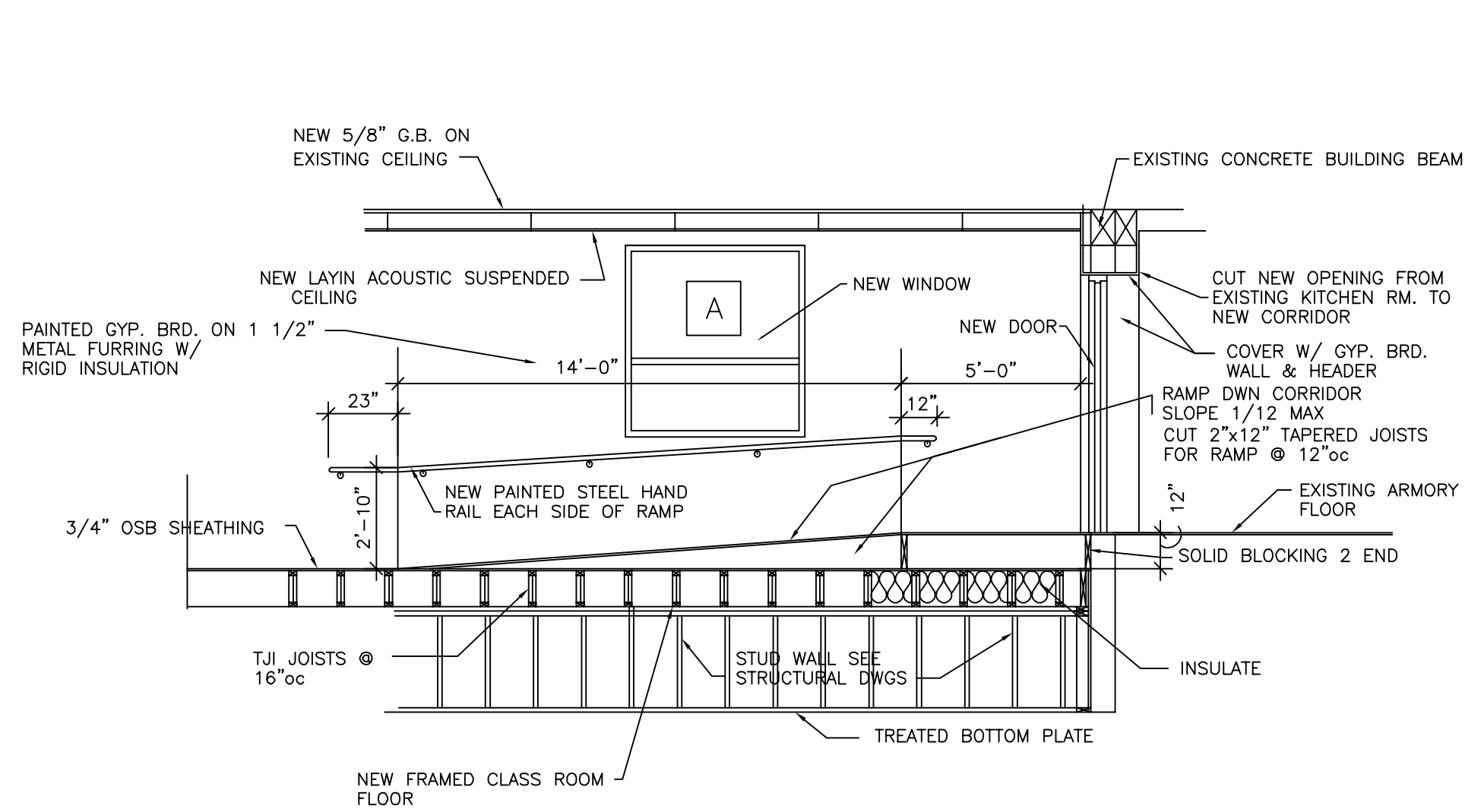
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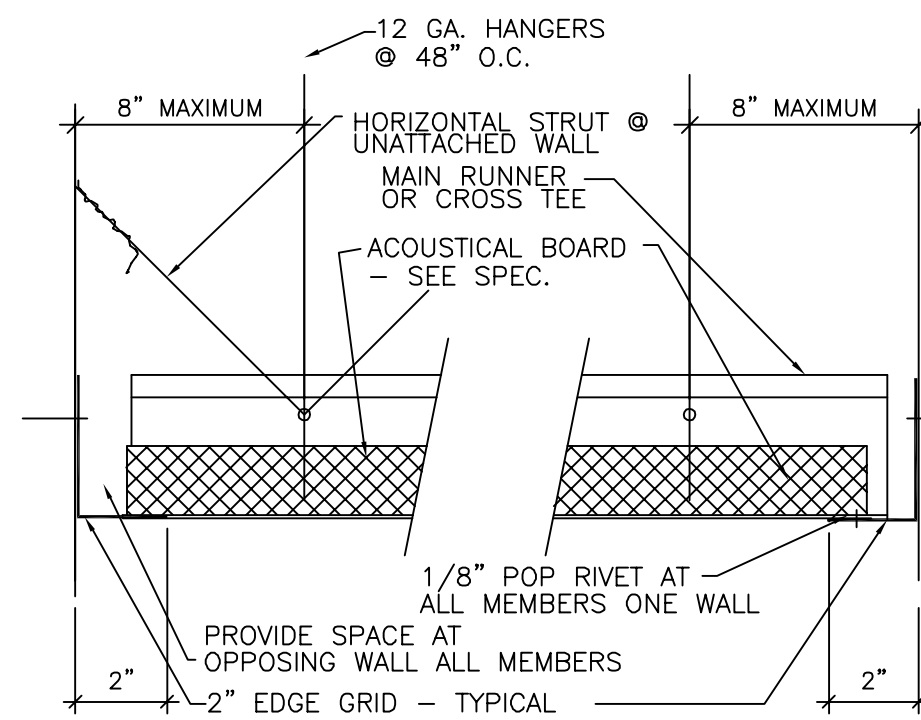
SHEET TITLE

AE-104

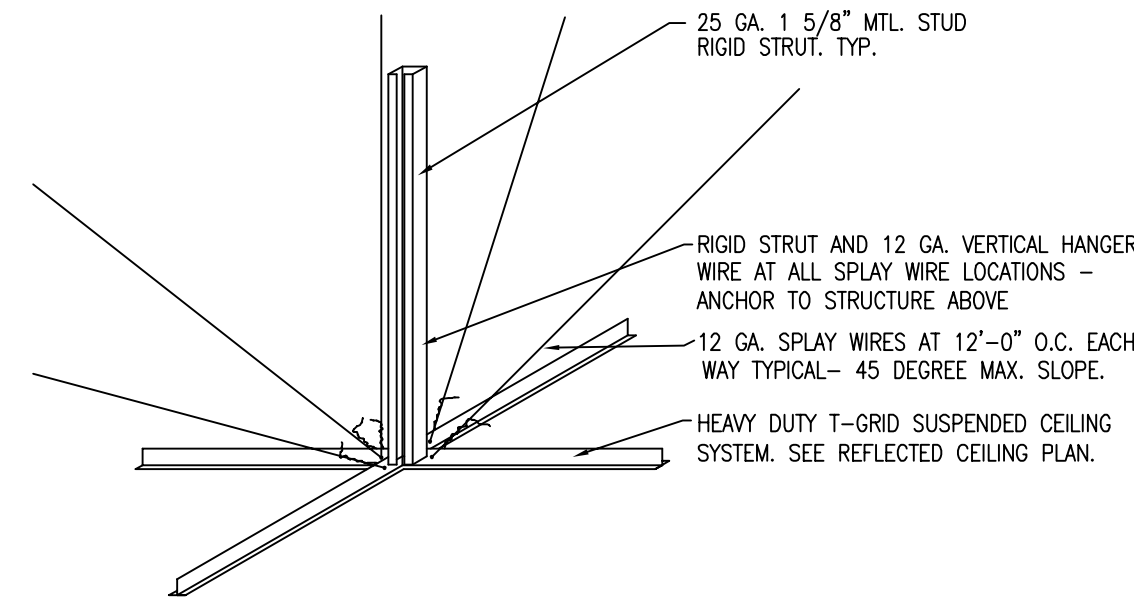
ARCHITECTURAL



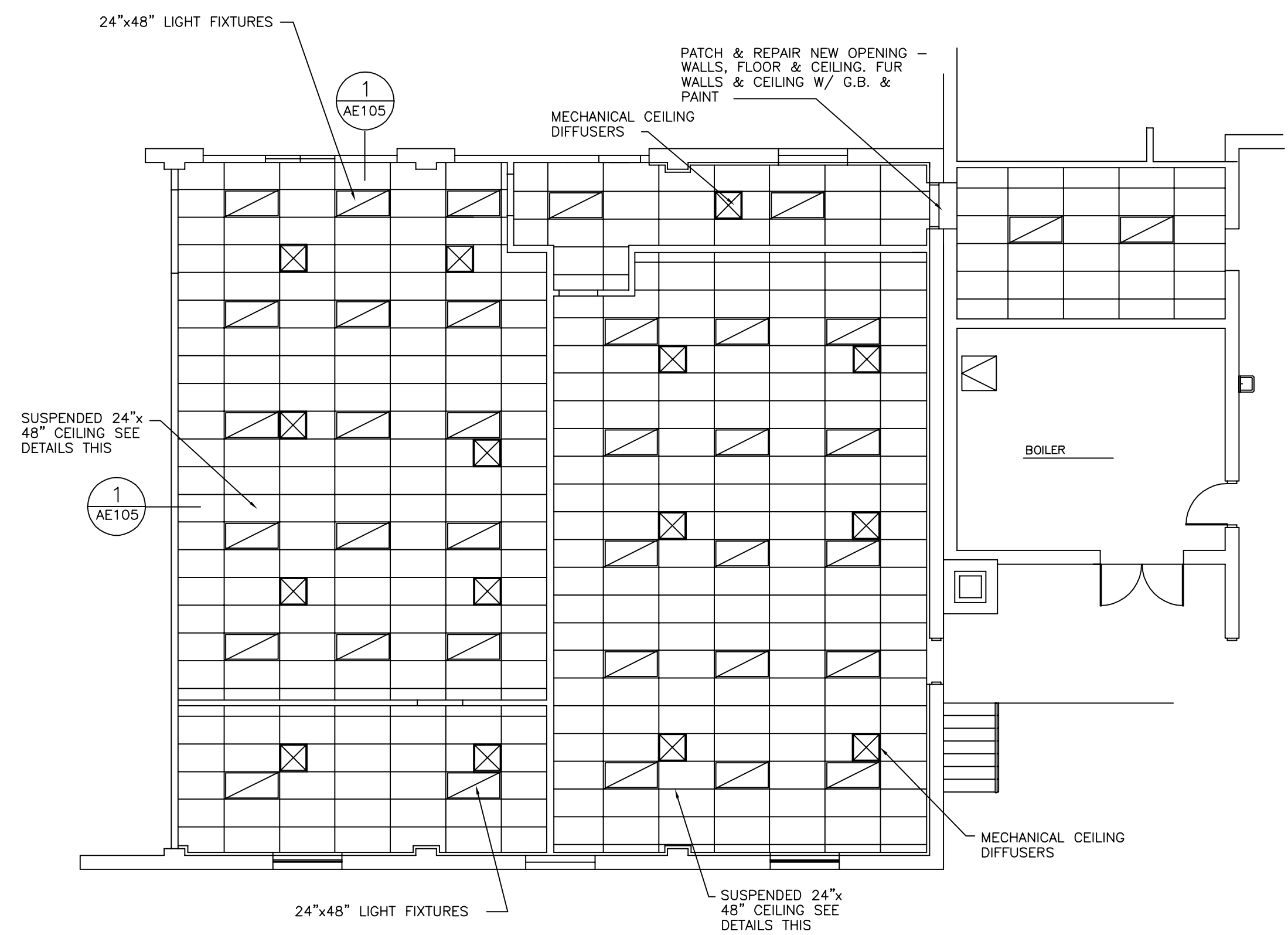
RAMP SECTION A
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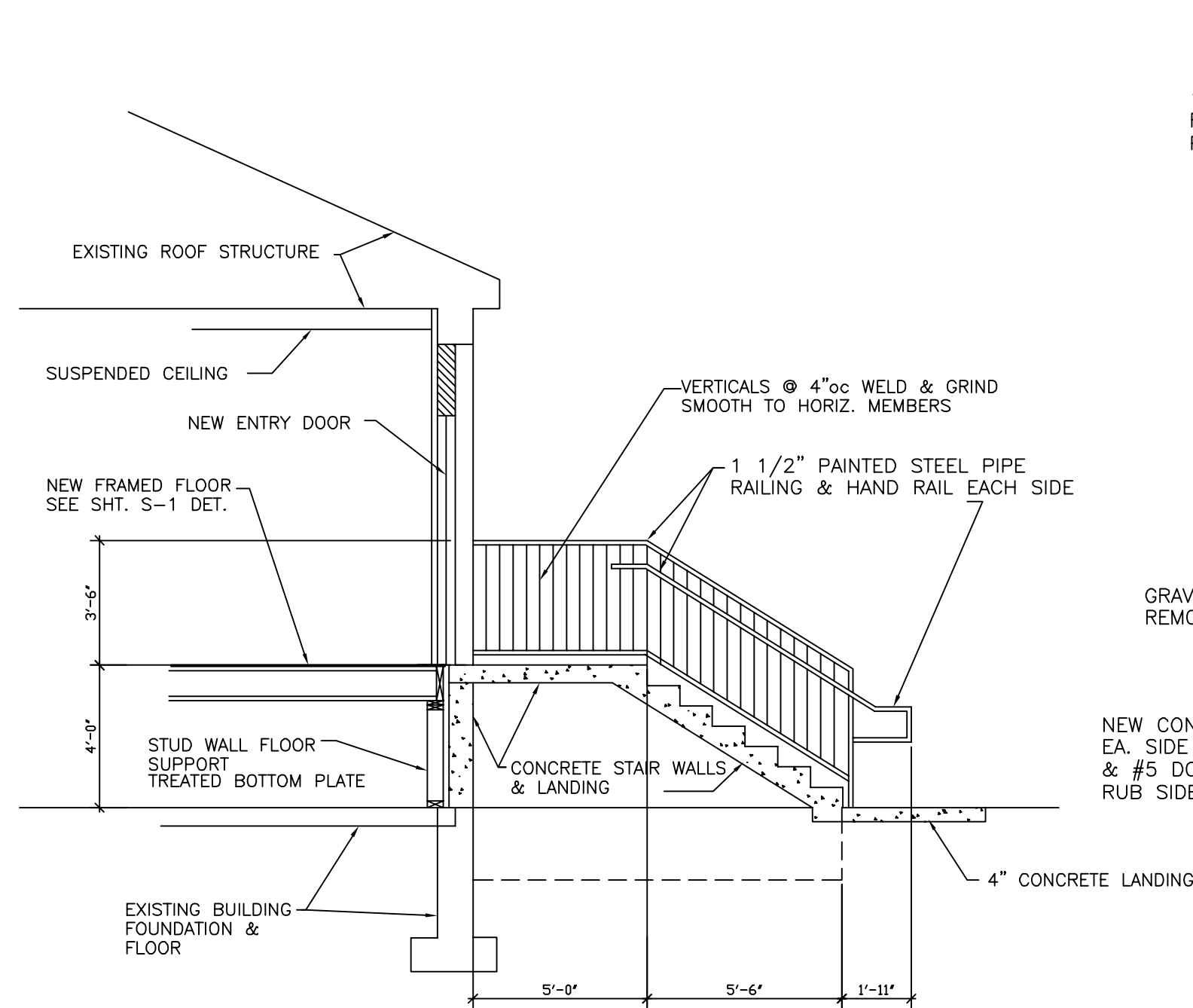
DETAIL 1
SCALE: 3/4" = 1'-0"



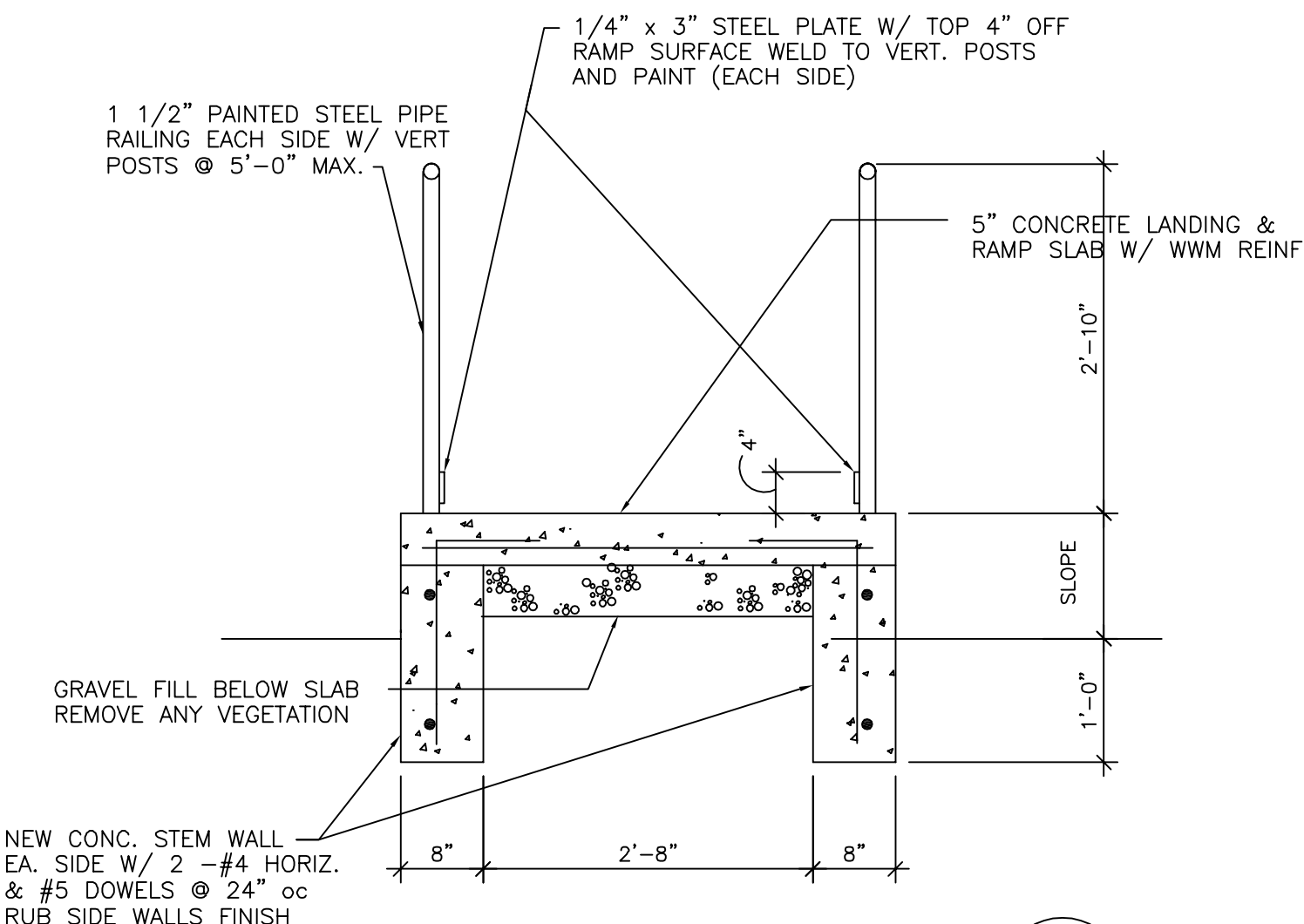
DETAIL 2
SCALE: 3/4" = 1'-0"



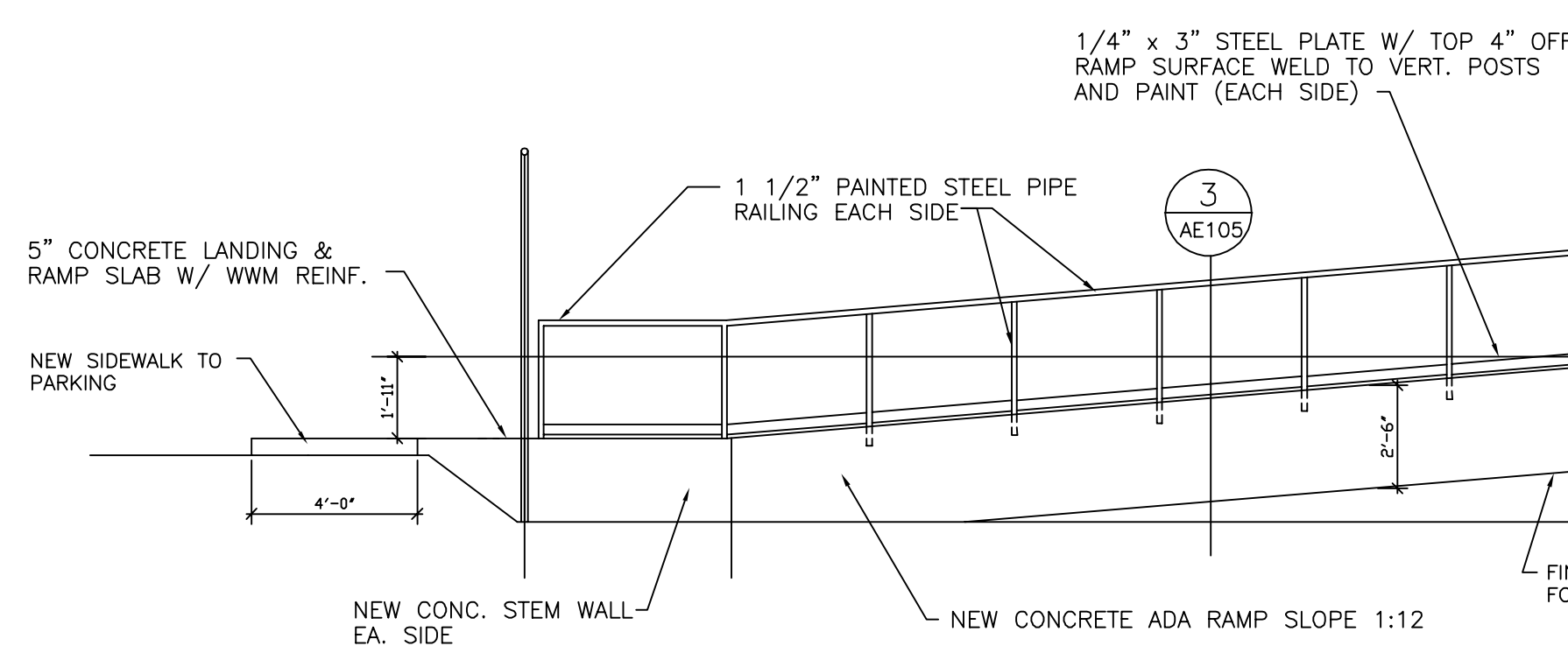
REFLECTED CEILING PLAN
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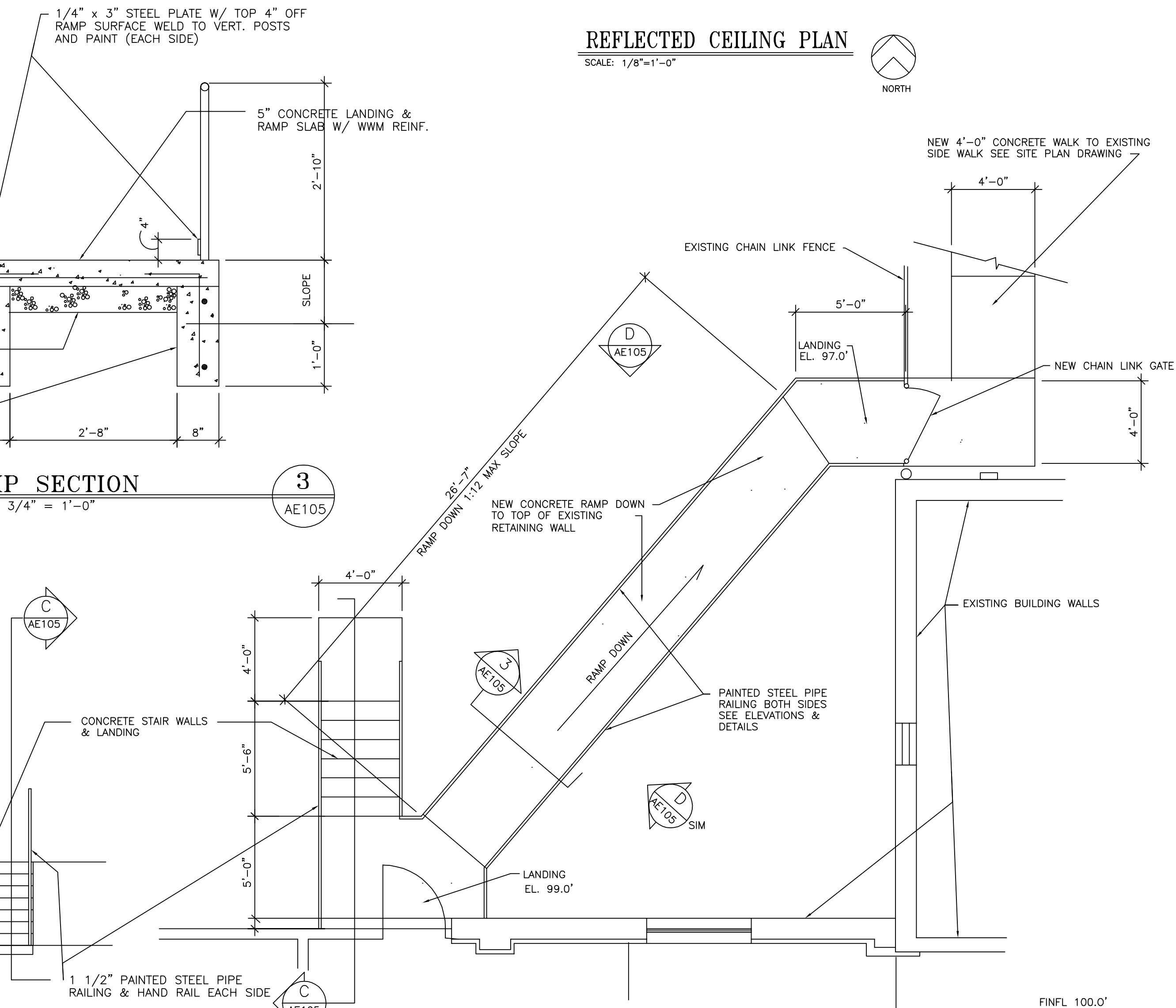
STAIR SECTION C
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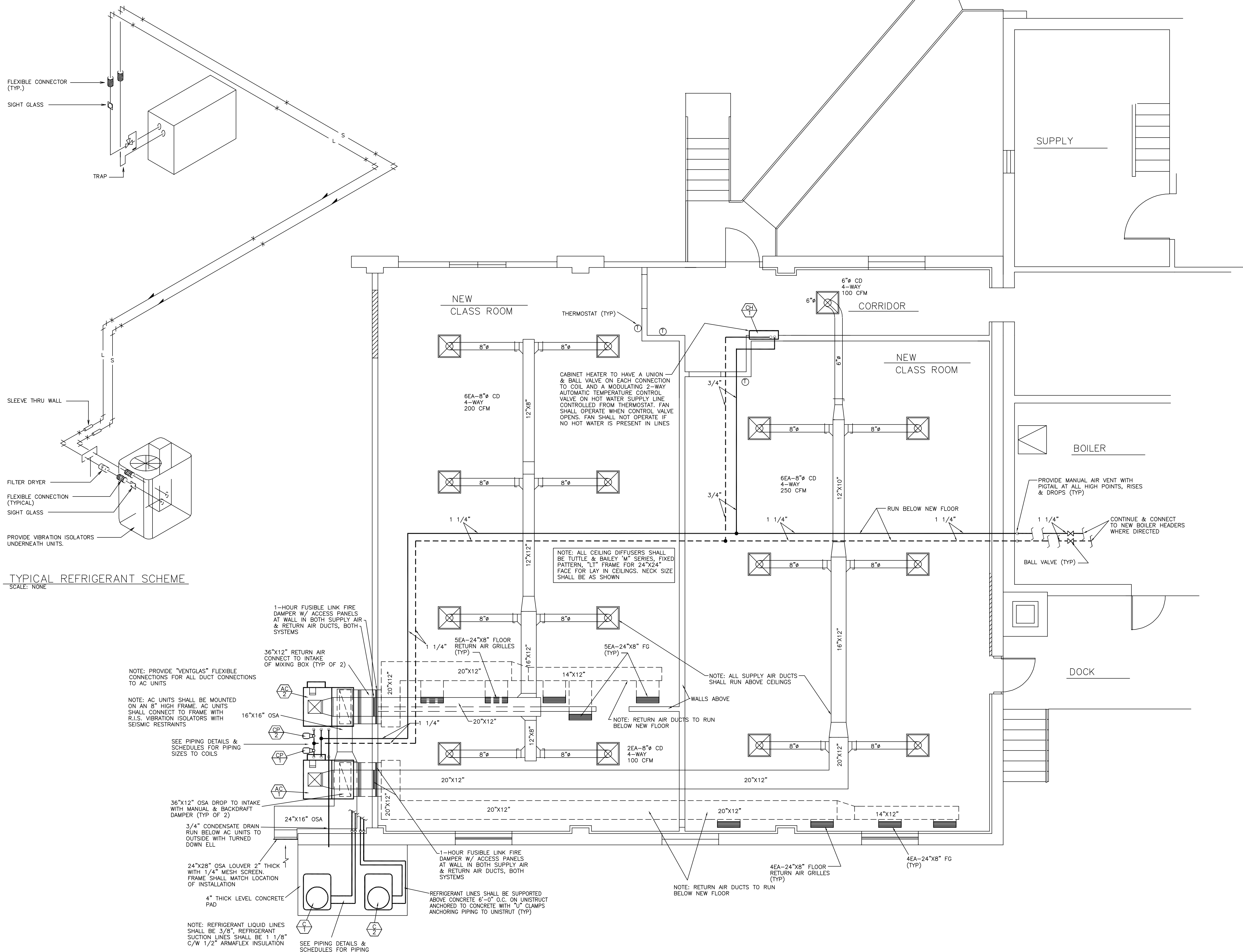
RAMP SECTION 3
SCALE: 3/4" = 1'-0"



RAMP SECTION D
SCALE: 1/4" = 1'-0"



EXTERIOR RAMP PLAN B
SCALE: 1/4"=1'-0"



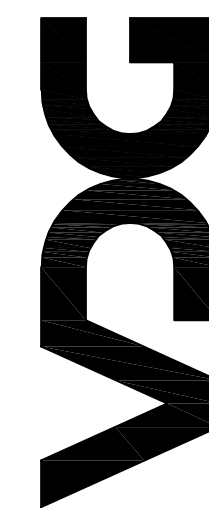
TYPICAL REFRIGERANT SCHEME
SCALE: NONE

MECHANICAL PLAN

SCALE: 1/4" = 1'-0"



VINCENT DESIGN GROUP, INC.
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REMODEL TO:
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300 EAST VINE STREET
TOOHE, UTAH

MECHANICAL PLAN & DETAIL

ARCH. PROJECT NO: 06-55
DATE: 11/22/06
DRAWN BY: GDS
CHECKED BY:
DESIGNED BY:
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DATE	REVISION

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M-100

ARCHITECTURAL

MECHANICAL SPECIFICATIONS

GENERAL

1. PROVISIONS OF "GENERAL NOTES", SHALL APPLY TO THIS WORK
2. INSTALL WORK IN STRICT ACCORDANCE WITH APPLICABLE RULES, REGULATIONS OF LOCAL AND STATE GOVERNMENTS AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION.
3. CONFORM WITH, COOPERATE WITH AND ASSIST OTHER CONTRACTORS IN CONFORMING WITH TRADE JURISDICTION RULINGS.
4. DRAWINGS AND SPECIFICATIONS INDICATE THE MINIMUM STANDARDS OF CONSTRUCTION, BUT SHOULD ANY WORK INDICATED BE SUBSTANDARD TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK, CONTRACTOR SHALL EXECUTE WORK IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES OR REGULATIONS.
5. MECHANICAL CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS, FEES, TAXES, INSPECTIONS AND CERTIFICATES THEREOF REQUIRED BY FEDERAL OR STATE ORDINANCES, LAWS, CODES, RULES OR REGULATIONS.
6. CONSULT WITH BUILDING OFFICIALS AND SERVICE COMPANIES TO VERIFY REQUIREMENTS AND COSTS FOR SERVICES AND THEIR INSTALLATIONS IN ACCORDANCE WITH SPECIFICATIONS, APPLICABLE CODES AND REQUIREMENTS.
7. LOCATIONS OF EQUIPMENT, PIPING AND OTHER MECHANICAL WORK IS INDICATED DIAGRAMMATICALLY BY DRAWINGS. DETERMINE EXACT LOCATIONS ON JOB, SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF OTHER CONTRACTORS.
8. MAKE NO MAJOR CHANGES NOR DECREASE SIZE OF ANY DUCTWORK, PIPING OR EQUIPMENT WITHOUT WRITTEN PERMISSION.
9. CUTTING OF STRUCTURAL MEMBERS IS NOT ALLOWED.
10. ALL EQUIPMENT SHALL BE NEW, OF THE BEST QUALITY NORMALLY USED FOR THE PURPOSE IN GOOD COMMERCIAL PRACTICE AND BE PRODUCTS OF REPUTABLE MANUFACTURERS AS NOTED ON THE PLANS.
11. THE MECHANICAL CONTRACTOR SHALL GUARANTEE THAT ALL EQUIPMENT, MATERIAL AND WORKMANSHIP FURNISHED BY HIM IS FREE OF DEFECT. SHOULD DEFECTS APPEAR WITHIN ONE YEAR FROM DATE OF INSTALLATION ACCEPTANCE, SAME SHALL BE REPLACED AT NO CHARGE TO THE OWNER FOR PARTS, EQUIPMENT OR LABOR. HVAC UNIT(S) SHALL HAVE WARRANTIES OF FIVE YEARS FOR THE COMPRESSOR AND TEN YEARS FOR THE HEAT EXCHANGER. WARRANTY WORK ON ITEMS SUPPLIED BY THE OWNER WILL BE DONE ON A TIME AND MATERIAL BASIS, UNLESS DUE TO IMPROPER INSTALLATION, OR AS PER INSTRUCTIONS FROM OWNER.

HEATING, VENTILATING AND COOLING

DUCT WORK

1. DUCT SIZE, SHAPE AND LOCATION SHALL BE IN ACCORDANCE WITH PLANS AS CLOSELY AS POSSIBLE
2. CONSTRUCTION AND MATERIALS SHALL BE PER STATE, LOCAL AND ALL APPLICABLE MECHANICAL CODES, AND ASHRAE REQUIREMENTS
3. DUCTWORK CONSTRUCTED TO FORM SMOOTH SURFACE INSIDE AND NEAT APPEARANCE OUTSIDE
4. JOINT SPACING 8"-0" O.C. MAXIMUM
5. RECTANGULAR DUCTWORK TO BE GALVANIZED SHEET METAL. 26 GA. UP TO 22" WIDE. 24 GA. - 23" TO 30" WIDE. 22 GA. - 31" TO 42" WIDE. CROSS BRAKE DUCTS OVER 18" WIDE. DUCTS SHALL BE IN ACCORDANCE WITH UMC AND SMACNA "LOW VELOCITY DUCT MANUAL" LATEST EDITION. PROVIDE TURNING VANES IN ALL SQUARE ELBOWS.
6. ROUND DUCTS TO BE GALVANIZED STEEL PIPE. 26 GA. UP TO 12" DIA.
7. FLEXIBLE DUCT TO BE FLEXMASTER TYPE 5 INSULATED TRI-LAMINATED, OR EQUAL. FIRE RETARDANT OUTER JACKET WITH VAPOR BARRIER, U.L. LISTED
8. FLEXIBLE DUCT ACCEPTABLE ONLY FOR 2 FEET MAX. FINAL CONNECTION TO DIFFUSERS.
9. INSULATE METAL RECTANGULAR DUCTS INTERNALLY OR EXTERNALLY. WRAP AND TAPE WITH 1# TO 1.5# DENSITY, 1.5" THICK R-6 MIN. INSULATION WITH FOIL BACKING TO PROVIDE VAPOR BARRIER.
10. INSULATE ROUND DUCTS WITH EXTERNAL WRAP AND TAPE WITH 1# TO 1.5# DENSITY, 1.5" THICK R-6 MIN. INSULATION WITH FOIL BACKING TO PROVIDE VAPOR BARRIER.
11. SUPPORT DUCTS AT 8' MAX. INTERVALS. DUCTS TO 30" WIDE: 1"x16 GA. MIN. STRAP HANGERS DOWN SIDE OF DUCT AND TURN UNDER 2" MIN. ATTACHED WITH SHEET METAL SCREWS.

GRILLES, REGISTERS AND LOUVERS

1. FURNISH GRILLES, REGISTERS AND LOUVERS AS SCHEDULED ON PLANS.
2. ACCEPTABLE MANUFACTURERS: TITUS, TUTTLE & BAILEY, KRUEGER, OR CARNES

EXHAUST AIR SYSTEM(S)

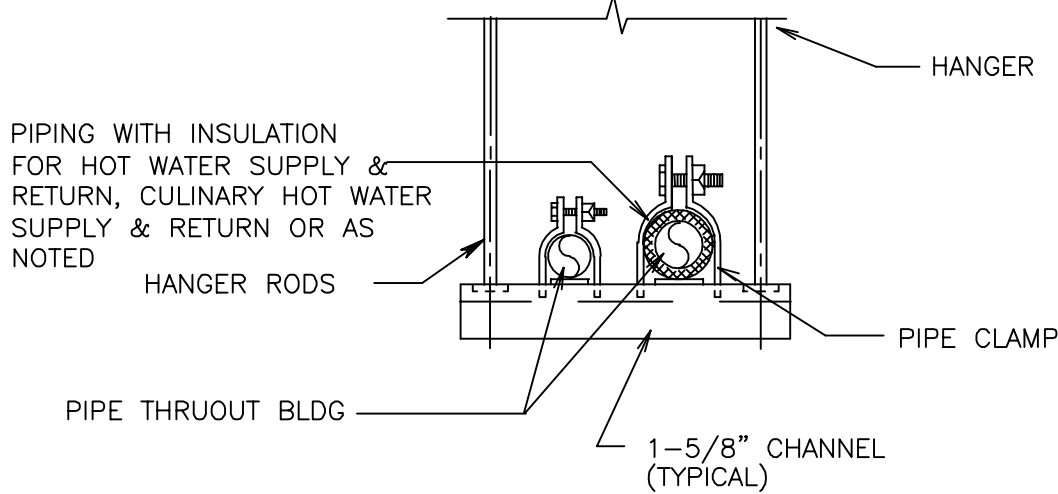
1. REFER TO HVAC EQUIPMENT LIST FOR SPECIFICATIONS OF EQUIPMENT AND PARTY RESPONSIBLE FOR FURNISHING THE EQUIPMENT.
2. INSTALL FANS AS INDICATED ON PLANS AND SCHEDULED, COMPLETE WITH ALL NECESSARY ACCESSORIES, BIRD SCREENS AND BACKDRAFT DAMPERS, REGISTERS, DIFFUSERS, ETC. EXHAUST AND MAKE-UP AIR FAN CURBS BY G.C.

ELECTRICAL

1. PROVIDE STARTERS, SWITCHES, RELAYS, CONTROLS, THERMOSTATS AND REMOTE SENSORS AS REQUIRED BY CODE AND/OR THE DRAWINGS FOR INSTALLATION BY E.C.
2. DUCT SMOKE DETECTOR SYSTEM FURNISHED AND INSTALLED BY MECHANICAL AS SHOWN. MC TO PROVIDE DUCT ACCESS PANEL.

TEST AND BALANCE

1. TEST THE BALANCE OF AIR FOR ALL COMPONENTS AS LISTED ON THE AIR BALANCE SCHEDULE IN THE PLANS N.E.B.B. OR A.A.B.C. LATEST STANDARDS.
2. EMPLOY AN EXPERIENCED TESTING FIRM OTHER THAN THE HVAC SUBCONTRACTOR.
3. TESTING SHALL INCLUDE VERIFICATION OF FLOW AND PROPER FUNCTIONING OF CONDENSATE DRAIN SYSTEMS.
4. REPORT SHALL LIST RESULTS OF AIR VOLUMES, SUPPLY, EXHAUST AND OUTSIDE AIR AND BE CERTIFIED AND SIGNED BY TESTING COMPANY.
5. PROVIDE 3 COPIES OF REPORT TO ARCHITECT PRIOR TO FINAL BILLING.



PIPE SUPPORT

SCALE: NONE

HOT WATER CABINET HEATER SCHEDULE										
SYM	MANUFACTURER	AREA SERVED	MBH AT 180°F ENT.	GPM	DELTA T	MOTOR HP	ELECTRICAL		WEIGHT (LBS)	REMARKS
							VOLT	AMPS		
CH 1	TRANE FFHB0601KMOCO	ENTRY LOBBY	28.7	2.87	20°	1/8	120	1.2	120	①②③④

- ① PROVIDE UNIONS AT HOT WATER COIL CONNECTIONS
- ② PROVIDE BALL VALVES AT COIL CONNECTIONS
- ③ PROVIDE AUTO. 2-WAY HOT WATER VALVE ON ENT. WATER PIPE
- ④ PROVIDE FRONT BAR GRILLE, DELUX BEIGE COLOR, KEYLOCK PANEL & ACCESS DOOR 2 ROW HOT WATER COIL MANUAL AIR VENT, DISCONNECT SWITCH, 1" FILTER, DECORATIVE TRIM MOLD AROUND CABINET & MATCHING WALL THERMOSTAT

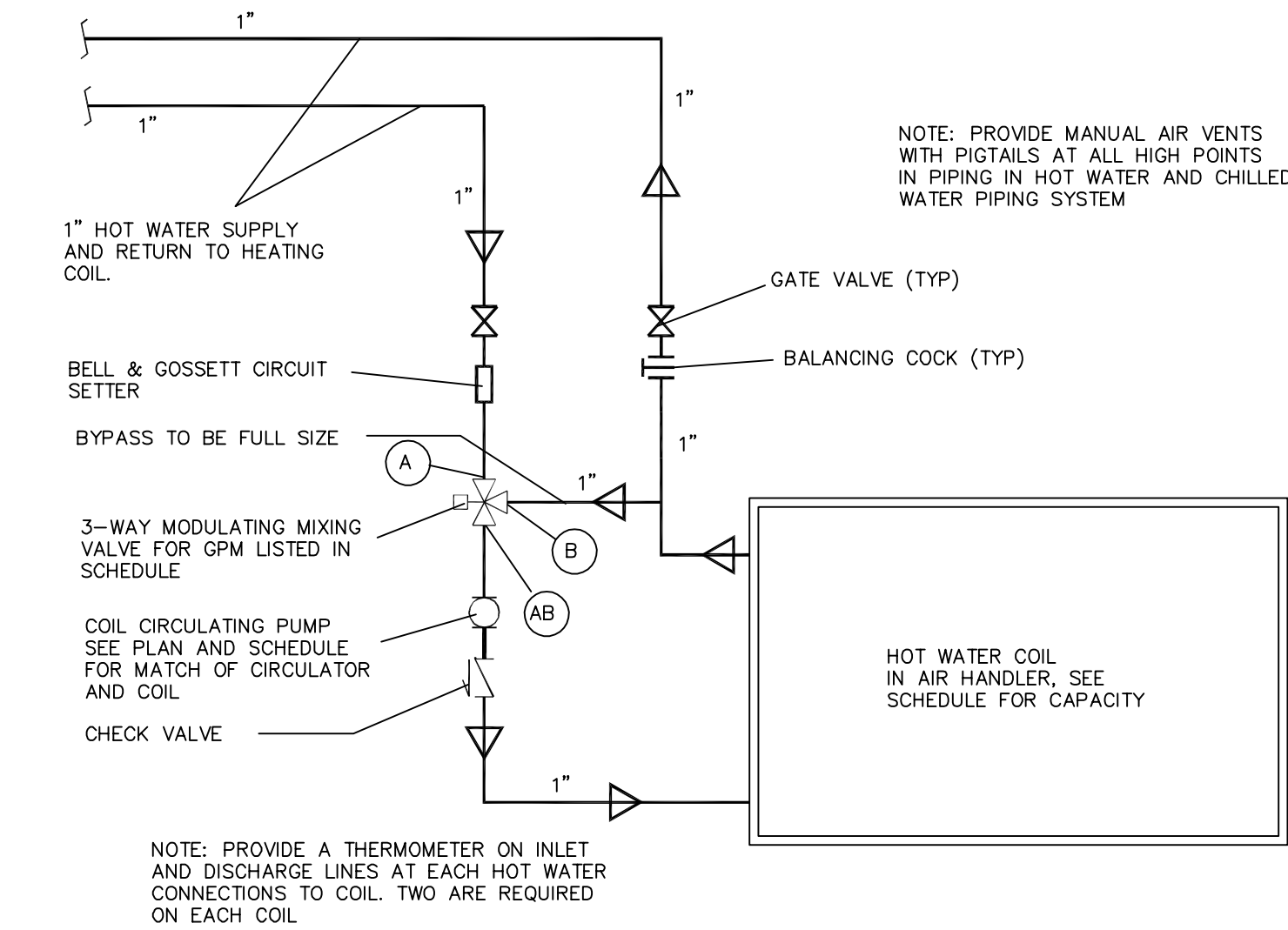
CONDENSING UNIT SCHEDULE										
COND. SYM	MANUFACTURER MODEL	AREA SERVED	CFM	SP ①	COOLING ②	SEER	COND. UNIT VOLT	ELECT. Ph	NOMINAL TONS	REMARKS
					ARI NET CLG CAP.					
C 1	TRANE TTA04BD300A	CLASSROOM	1600	1.4"	48,000	10.0	208	3	60	⑤⑥⑦⑧
C 2	TRANE TTA04BD300A	CLASSROOM	1600	1.4"	48,000	10.0	208	3	60	⑤⑥⑦⑧

GENERAL NOTES (APPLIES TO ALL UNITS)

1. EXTERNAL STATIC PRESSURE WITH FILTER IN PLACE.
2. COOLING CAPACITY BASED ON: 80DB/62WB ENT. AIR & 95° AMBIENT.
3. CONTINUOUS B.H.P. PER MANUFACTURERS SPECIFICATIONS.

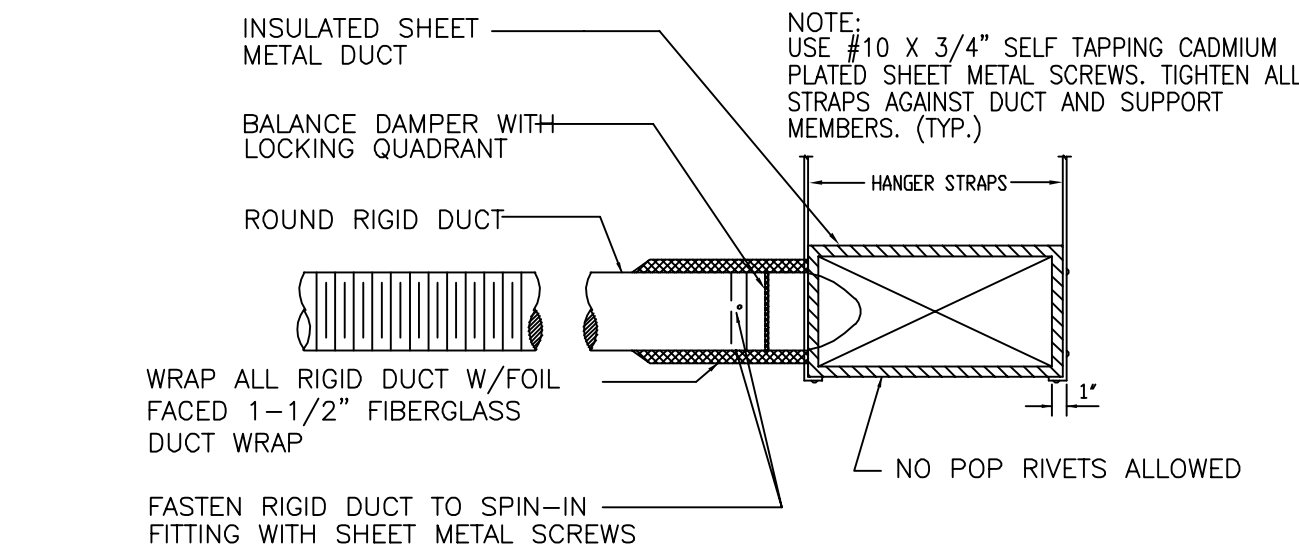
NUMBERED NOTES (APPLIES TO UNITS LISTED)

- ⑤ PROVIDE MANUAL BALANCING DAMPER IN OUTSIDE AIR DUCT AT AIR HANDLER
- ⑥ PROVIDE FILTER RACK & 2" THROWAWAY FILTERS.
- ⑦ SEE CONTROL SEQUENCE
- ⑧ PROVIDE VENTGLASS FLEXIBLE CONNECTIONS AT DUCT CONNECTIONS TO AIR HANDLER



HOT WATER COIL PIPING DIAGRAM (TYP)

NO SCALE



FLEX DUCT WITH SPIN IN FITTING

NO SCALE

GENERAL MECHANICAL SCHEDULE	
SYMBOL	DESCRIPTION/MANUFACTURER-MODEL
AC 1 & AC 2	AIR HANDLING UNIT, VERTICAL, HOT WATER HEATING, DX COOLING, 1,600 CFM AT 2.0 T.S.P., 1.0 HP, 208/3/60, 1750 RPM MOTOR, 2 ROW HOT WATER COIL WITH A CAPACITY OF 75,000 BTUH WITH ENT. WATER AT 180°F, LV WATER AT 160°F AND 60° ENT. AIR, 4 ROW DX COOLING COIL WITH ENT. AIR AT 80°F DB AND 61°F WB, 3.5 SQ. FT COIL FACE AREA HTG & CLG, COMBINATION FILTER AND MIXING BOX WITH AUTOMATIC OUTSIDE AIR AND RETURN AIR DAMPERS, INSULATED CASING WITH 1" OF FACTORY APPLIED INSULATION, 13.3 SQ. FT. FILTER AREA WITH 2" THICK DISPOSABLE FILTERS, MOUNT AIR HANDLER ON AN 8" HIGH BASE WITH RUBBER IN SHEAR VIBRATION ISOLATORS WITH SEISMIC RESTRAINTS. MC QUAY LSL 104C

P U M P S C H E D U L E									
SYMBOL	DESCRIPTION/MFR.	SERVICE	CAPACITY		MOTOR				NOTES
			GPM	HEAD FT WATER	HP	RPM	VOLT	Ø	
<div>CP 1</div>	BELL & GOSSETT 1" PR	COIL HEATING HOT WATER	6.0	15	1/6	1750	120	1	① ②
<div>CP 2</div>	BELL & GOSSETT 1" PR	COIL HEATING HOT WATER	6.0	15	1/6	1750	120	1	① ②

NUMBERED NOTES (APPLIES TO UNITS LISTED)

- ① BRONZE FITTED
- ② BASE MOUNTED, CLOSE COUPLED, FLOOR MOUNTED WITH 4" HIGH CONCRETE HOUSEKEEPING PAD, BOLT PUMP TO BASE

EQUIPMENT CONNECTION SIZE SCHEDULE							
FURN. SYM	COND. SYM	AREA SERVED	REF. LINE SIZE	INTAKE/VENT. SIZE	COND. DRAIN	GAS SIZE	REMARKS
AH 1	C 1	CLASSROOM	3/8" LIQUID SUCTION	1 1/8" INTAKE VENT/FLUE	-	3/4"	- ①②③
AH 2	C 2	CLASSROOM	3/8" LIQUID SUCTION	1 1/8" INTAKE VENT/FLUE	-	3/4"	- ①②③

NOTES:

- ① REFRIGERANT PIPING SHALL BE DEGREASED & DEOXIDIZED TYPE "L" COPPER WITH WROUGHT COPPER FITTINGS. SOLDER SHALL BE "SILFOS" SILVER SOLDER
- ② ALL REFRIGERANT SUCTION LINES SHALL BE INSULATED WITH 1/2" ARMSTRONG ARMAFLEX WITH TWO COATS OF ARMAFLEX 22 FINISH
- ③ DRAIN PIPING SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER FITTINGS. SOLDER SHALL BE 95/5

AUTOMATIC TEMPERATURE CONTROL

THE MECHANICAL CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM OF AUTOMATIC TEMPERATURE CONTROL FOR ALL EQUIPMENT FURNISHED BY THE MECHANICAL CONTRACTOR. THIS SHALL INCLUDE ALL THERMOSTATS, CONTROLLERS, AUTOMATIC VALVES, SENSORS, CONTACTS, ETC. FOR A COMPLETE SYSTEM. ALL WIRING ASSOCIATED WITH THE TEMPERATURE CONTROL SYSTEM SHALL BE BY THE MECHANICAL CONTRACTOR. ALL WIRING FOR THE CONTROL SYSTEM SHALL BE RUN IN CONDUIT.

A WALL MOUNTED THERMOSTAT FURNISHED WITH HVAC UNIT SHALL CONTROL SPACE TEMPERATURE.

HVAC UNITS SHALL BE CONTROLLED WITH A WALL MOUNTED THERMOSTAT TO CONTROL SPACE TEMPERATURE. THE THERMOSTAT SHALL MODULATE HOT WATER VALVES & CONDENSING UNITS IN SEQUENCE TO MAINTAIN SPACE TEMPERATURE. AUTOMATIC VALVES SHALL BE MATCHED TO THE HVAC UNIT AND SHALL BE FURNISHED BY CONTROL CONTRACTOR.

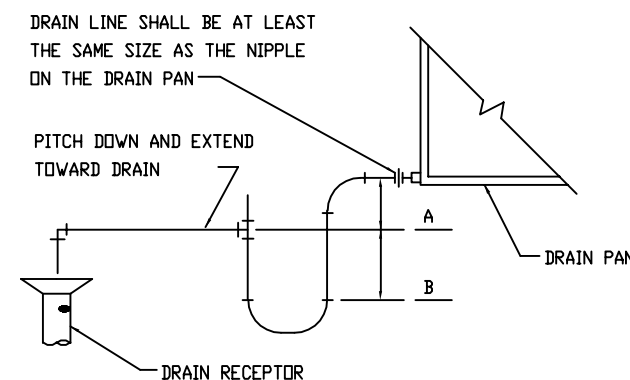
CABINET HEATER SHALL BE CONTROLLED WITH A WALL MOUNTED THERMOSTAT TO CONTROL SPACE TEMPERATURE. THE THERMOSTAT SHALL MODULATE HOT WATER VALVE TO MAINTAIN TO MAINTAIN SPACE TEMPERATURE. VALVES SHALL BE FURNISHED BY CONTROL CONTRACTOR.

FOR AIR HANDLING UNITS AC-1 AND AC-2 A WALL MOUNTED THERMOSTAT SHALL CONTROL SPACE TEMPERATURE BY MODULATING A 3-WAY HOT WATER VALVE AND CONDENSING UNIT IN SEQUENCE TO MAINTAIN SPACE TEMPERATURE. HOT WATER CIRCULATING PUMP SHALL RUN WHENEVER THE HOT WATER VALVE OPENS TO THE HOT PORT. THE FANS SHALL BE CONTROLLED FROM A 7-DAY PROGRAMMABLE THERMOSTAT.

AN AVERAGING ELEMENT IN THE MIXED AIR SECTION OF AC-1 AND AC-2 SHALL MODULATE THE OUTSIDE AND RETURN AIR DAMPERS TO MAINTAIN PLENUM TEMPERATURE. A LOW LIMIT AIR QUANTITY SHALL BE GUARANTEED WITH STOPS. MOTORIZED DAMPERS FOR HVAC UNITS SHALL BE FURNISHED WITH MIXING BOX.

A SMOKE DETECTOR AND FREEZESTAT SHALL BE PROVIDED ON AC-1 AND AC-2 TO STOP THE FAN AND CLOSE THE OUTSIDE DAMPER IF A FIRE OR FREEZING CONDITIONS ARE SENSED

CONTROLS FOR THIS ADDITON SHALL BE "UTAH CONTROLS" AND SHALL MATCH AND BE INTEGRATED WITH THE NEW CONTROL SYSTEM FOR THE NEW BOILER.



DX COIL DRAIN TRAP

NO SCALE

MECHANICAL NOTES

1. WIRING FOR THERMOSTATS AND INTERCONNECTING EQUIPMENT WIRING FOR CONTROLS SHALL BE BY HVAC CONTRACTOR
2. ALL ROUND DUCTWORK SHALL BE GALVANIZED SPIRAL WOUND SHEET METAL ALL IN ACCORDANCE WITH SMACNA "HIGH VELOCITY DUCT MANUAL" LATEST EDITION
3. ALL RECTANGULAR DUCTWORK SHALL BE GALVANIZED SHEET METAL ALL IN ACCORDANCE WITH SMACNA "LOW VELOCITY DUCT MANUAL" LATEST EDITION
4. COORDINATE ALL DUCTWORK WITH STRUCTURE, ELECTRICAL, ETC. RUN DUCTS BETWEEN TRUSSES, THRU WEBS, ETC.
5. BALANCE AND ADJUST THE COMPLETE MECHANICAL SYSTEM. PROVIDE A BALANCING REPORT OF THE RESULTS OF BALANCING.
6. DUCTWORK PASSING THRU ROOF JOISTS SHALL HAVE SHEET METAL PANNED AROUND JOISTS. JOISTS SHALL PASS THRU DUCT. SEAL AROUND ALL JOISTS TO MAKE AN AIR TIGHT DUCT.
7. LINE INSIDE OF SUPPLY, RETURN & OUTSIDE AIR DUCTS FROM AC UNITS FOR 10'-0" FROM UNIT WITH 1" OF ACCOUSTIC FIBERGLASS INSULATION. INCREASE DUCT SIZES 2" ON EACH SIDE TO ACCOMMODATE INSULATION.
8. ALL SUPPLY AIR DUCTS SHALL BE WRAPPED WITH 1" OF FIBERGLASS DUCT INSULATION WITH ALL PURPOSE VAPOR BARRIER LAPPED AND SEALED. SUPPLY DUCTS WHICH ARE VISIBLE SHALL NOT BE INSULATED.
9. ALL THERMOSTATS SHALL BE MOUNTED AT 5'-6" OR AS NOTED ON DRAWINGS
10. NO PIPING OR DUCTWORK SHALL CONFLICT WITH ELECTRICAL SPACE REQUIREMENTS ABOVE OR AROUND ELECTRICAL EQUIPMENT
11. CEILING DIFFUSERS, IN GENERAL, SHALL BE FOR LAY-IN T-BAR CEILINGS. SEE ARCHITECTURAL DRAWINGS FOR CEILINGS WITH OTHER THAN LAY-IN TILE. FRAME OF DIFFUSER SHALL MATCH CEILING WHERE INSTALLED.
12. FLOOR RETURN AIR GRILLES SHALL BE TUTTLE & BAILEY TB SERIES FOR FLOOR INSTALLATION WITH HEAVY DUTY ALUMINUM BARS. PROVIDE A SHEET METAL BOOT THE SAME SIZE AS THE REGISTER FROM THE GRILLE TO THE RETURN AIR DUCT.
13. RETURN AIR REGISTERS SHALL BE COMPLETE WITH A KEY OPERATED OPPOSED BLADE DAMPER
14. ALL BRANCH DUCTS TO INDIVIDUAL DIFFUSERS SHALL HAVE AN OPPOSED BLADE DAMPER FOR RECTANGULAR DUCTS AND A BUTTERFLY DAMPER FOR ROUND DUCTS.
15. ALL CEILING DIFFUSER AND GRILLE LOCATIONS SHALL BE COORDINATED WITH CEILING GRID AND LIGHTING. ADJUST THE LOCATIONS AS NECESSARY TO MATCH
16. ALL DRAIN PIPING SHALL BE COPPER, TYPE "L" WITH WROUGHT COPPER FITTINGS. SOLDER SHALL BE 95/5.
17. PIPE HANGER SPACING SHALL BE IN ACCORDANCE WITH THE UMC.
18. ALL HOT ATER HEATING PIPING INCLUDING AIR SEPARATOR AND EXPANSION LINES SHALL BE COVERED WITH 1" OF FIBERGLASS PIPE INSULATION INCLUDING VALVES AND FITTINGS. OTHER THAN UNIONS, TEES, ELBOWS ETC. SHALL BE FURTHER COVERED WITH MOLDED PASTIC COVERS DESIGNED FOR THIS APPLICATION.

VINCENT DESIGN GROUP, INC.
ARCHITECTS AND PLANNERS

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TOOLE FACILITY

300 EAST VINE STREET
TOOLE, UTAH

MECHANICAL DETAILS, SPECIFICATIONS, SCHEDULES & NOTES

ARCH. PROJECT NO: 06-55
DATE: 11/22/06
DRAWN BY: GDS
CHECKED BY:
DESIGNED BY:

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DATE	REVISION

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M-101

ARCHITECTURAL -

GENERAL NOTES	
1.	DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO MAKING ANY ROUGH-INS.
2.	FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE AS PER MANUFACTURERS WRITTEN INSTRUCTIONS AND APPROVED WIRING DIAGRAMS AND DETAILS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
3.	CONSULT ARCHITECTS REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LIGHTING FIXTURES, SPEAKERS, SMOKE DETECTORS ETC.
4.	ELECTRICAL CONTRACTOR SHALL MEET WITH THE CEILING AND MECHANICAL CONTRACTORS TO COORDINATE LOCATIONS, CLEARANCES, CEILING TYPES AND ROUGH-IN REQUIREMENTS OF ALL LIGHTING FIXTURES PRIOR TO DUCT, PIPING AND CEILING INSTALLATIONS.
5.	ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A 200LB RATED PULL CORD INSTALLED AND SHALL BE IDENTIFIED AT EACH JUNCTION, PULL AND TERMINATION POINT, USING PERMANENT MARKER IN THE BOX. ID SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
6.	ALL PENETRATIONS OF FIRE RATED FLOORS, CEILING AND WALLS SHALL BE SEALED WITH APPROVED AND RATED FIRE STOP MATERIAL TO MAINTAIN FIRE RATING OF ASSEMBLY.
7.	ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY OR CONCRETE COLUMNS, BOND BEAMS OR GROUTED CELLS OF MASONRY WALLS ADJACENT TO OPENINGS WITHOUT COORDINATION WITH THE MASONRY CONTRACTOR.
8.	IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO VERBALLY APPROVE METHODS AND MATERIALS NOT REFLECTED HEREIN.
9.	CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND OTHER DRAWINGS PRIOR TO BID.
10.	WORK SHALL BE PERFORMED IN A PROFESSIONAL WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
11.	WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND NATIONAL CODES, STANDARDS AND ORDINANCES.
12.	CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS AND INSPECTION FEES.
13.	THE CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP, WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION. DEFECTS SHALL BE PROMPTLY CORRECTED.
14.	PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
15.	VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
16.	ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-INS. CONSULT CONTRACT DOCUMENT DRAWINGS AND SHOP DRAWINGS TO VERIFY ALL CODE AND MAINTENANCE REQUIRED CLEARANCES ARE MAINTAINED.
17.	CONTRACTOR SHALL VERIFY ACTUAL ELECTRICAL LOADS OF EACH PIECE OF EQUIPMENT REQUIRING POWER. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE PROJECT ENGINEER.
18.	SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS RESULT IN DEFECT OR IMPROPER OPERATION THE CONTRACTOR SHALL MAKE ANY CORRECTIONS NECESSARY AT NO ADDITIONAL COSTS TO THE OWNER.
19.	WIRE SHALL BE COPPER 75° C RATED FOR GENERAL USE. FOR HID FIXTURES AND WIRING WITHIN 3" OF FLUORESCENT BALLAST SHALL BE COPPER, MINIMUM 90° C RATED. CONDUCTOR SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30° C AMBIENT TEMPERATURE ENVIRONMENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.
20.	SPLICES IN EXTERIOR PULLBOXES AND MANHOLES SHALL BE MADE WATERPROOF USING "SCOTCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS ENTERING BOXES WITH "DUCTSEAL" OR EQUAL.
21.	SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH SPECIFICATIONS BOUND IN A THREE RING BINDER, INDEXED IN A NEAT AND ORDERLY MANNER WITH TYPE AND MODEL NUMBERS INDICATED. SUBMITTALS SHALL INCLUDE BUT NOT LIMITED TO: LIGHTING FIXTURES, LAMPS, WIRING DEVICES, OCCUPANCY SENSORS, CONTACTORS, TIME CLOCKS, PHOTOCELLS, RELAYS, SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS, SAFETY SWITCHES, MOTOR STARTERS, OVERCURRENT PROTECTION DEVICES, TRANSFORMERS, CONDUCTORS OVER 600 VOLTS AND ALL SPECIAL SYSTEMS SUCH AS FIRE ALARM, LIGHTING CONTROLS, SECURITY SYSTEMS, SOUND SYSTEMS ETC.
22.	VERIFY EXACT LOCATIONS OF ALL NEW AND EXISTING UNDERGROUND SITE UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL EXCAVATION, SUPPORTS, SERVICE FEEDERS, (CONDUIT AND/OR WIRE), PULL BOXES, TRANSFORMER PADS, SAW CUTTING AND PATCHING, CONCRETE PAVING ETC. REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION AND PATCHING TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS FOR ALL SITE UTILITIES. ELECTRICAL CONTRACTOR SHALL ALSO COORDINATE ELECTRICAL RELATED UTILITIES WITH THE CIVIL AND MECHANICAL ENGINEERS AND CONTRACTORS.
23.	PULLBOXES, CABINETS, ETC. MOUNTED ON THE EXTERIOR OF THE BUILDING AT GRADE LEVEL, SHALL BE WEATHERPROOF TYPE WITH HINGED GASKETED LOCKABLE COVERS SECURED WITH TAMPERPROOF SCREWS.
24.	COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, LOCAL ORDINANCES, AND UTAH STATE DFCM.
25.	MINIMUM CONDUIT SIZE SHALL BE 3/4".

ELECTRICAL SYMBOL SCHEDULE			
STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS			
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
	ONE CIRCUIT, TWO WIRE, HOME RUN TO PANEL		
	2 CIRCUIT, 3 WIRE, COMMON NEUTRAL HOME RUN		
	3 CIRCUIT, 4 WIRE, COMMON NEUTRAL HOME RUN		
	CONDUIT RUN CONCEALED IN WALL OR CEILING		
	CONDUIT UP		
	CONDUIT DOWN		
	CONDUIT STUB LOCATION	CAP CONDUIT	
	CEILING LIGHT FIXTURE	CEILING	
	WALL LIGHT FIXTURE	AS NOTED	
	6 LIGHT NURSE CALL TO MATCH EXISTING		
	NIGHT LIGHT WITH GRILL		MATCH EXISTING
	RECESSED DOWNLIGHT FIXTURE	CEILING	
	FLUORESCENT LIGHT FIXTURE	AS NOTED	
	EM FLUORESCENT EGRESS LIGHT FIXTURE	AS NOTED	UNSWITCHED
	CEILING MOUNTED EXIT LIGHT	CEILING	
	WALL MOUNTED EXIT LIGHT	AS NOTED	
	SINGLE POLE SWITCH	+4'-0"	
	THREE-WAY SWITCH	+4'-0"	
	FOUR-WAY SWITCH	+4'-0"	
	TIME CLOCK WITH CONTACTOR, PHOTO CELL ON ROOF	+4'-0"	
	3 POSITION MOMENTARY CONTACT TOP/BOTTOM - ON/OFF		
	DIMMER SWITCH		
	DUPLEX RECEPTACLE - HOSPITAL GRADE	+16"	COLOR TO MATCH
	FOURPLEX RECEPTACLE - HOSPITAL GRADE - RED DEVICE		EMERGENCY POWER
	ELECTRIC WATER COOLER RECEPTACLE		SEE DETAIL
	WEATHERPROOF RECEPTACLE	+24"	
	ISOLATED GROUND RECEPTACLE	+16"	
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+16"	
	FOURPLEX RECEPTACLE - HOSPITAL GRADE	+16"	COLOR TO MATCH
	SPECIAL PURPOSE OUTLET	+16" OR AS NOTED	
	TELEPHONE OUTLET-RUN CAT 5E CABLE 4PR IN 3/4"C TO TEL. EQUIP BOARD		+16"
	TELEPHONE/DATA OUTLET-RUN CAT 5E CABLE 4PR IN 3/4"C TO TEL. EQUIP BOARD		+16"
	JUNCTION BOX ("F" IN FLOOR)	AS NOTED	
	MOTOR OUTLET	TO SUIT EQUIP.	
	MANUAL STARTER THERMAL OVERLOAD SWITCH W/PILOT LIGHT	+4'-0"	
	PANEL BOARD	TOP AT +6'-0"	
	TELEPHONE TERMINAL BOARD		
	FIRE ALARM MANUAL STATION	+4'-0"	
	FIRE ALARM SIGNAL SPEAKER/STROBE	+6'-8"	
	SMOKE DETECTOR	CEILING	
	DUCT SMOKE DETECTOR		MTD. IN DUCT
	HEAT DETECTOR	CEILING	
	ARCHITECTURAL ROOM NUMBER		
	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
	EQUIPMENT NUMBER		
	FUSED DISCONNECT SWITCH		
	DISCONNECT SWITCH		
	COMBINATION MOTOR STARTER WITH FUSED DISCONNECT		
	TELEVISION JACK		
	CARD READER (ACCESS CONTROL)		
	CAMERA CCTV-RUN TWO 24V POWER CABLES, COMM CABLE CAT 5e, AND RDB TW-PR UTP CABLE IN 1"C TO CCTV EQUIPMENT CABINET IN ELEC RM		
	FLOW SWITCH		
	TAMPER SWITCH		
	FLOOR OUTLET WITH DUPLEX RECEPTACLE AND TEL/DATA JACK - RUN CAT 5E CABLE 4PR IN 3/4"C TO TEL EQUIP BOARD.		
	FLOOR OUTLET WITH DUPLEX RECEPTACLE		

LIGHTING FIXTURE SCHEDULE								
FIXTURE TYPE	MANUFACTURE	CATALOG NUMBER	DESCRIPTION	LAMPS	QTY	FIX	MTG	VOLTS
						WATTS		
T1	COLUMBIA	ST824-332G-FSA12125 EBLH120	2'x4' LAY-IN FLOURESCENT 0.125" AGRLIC LENS	F32, T8 TL835	3	-	REC.	120
T2	LITHONIA	TWP 175MH 120 PE	WALL PACK-- WET LOCATION	175 MH	1	-	WALL	120
T3	BEGA	2542 MH	SHALLOW SURFACE -- DAMP LOCATION	70 MH	1	-	SURF.	VERIFY
X	LITHONIA	LESIGELN	EXIT LIGHT	-	-	-	SURF.	120

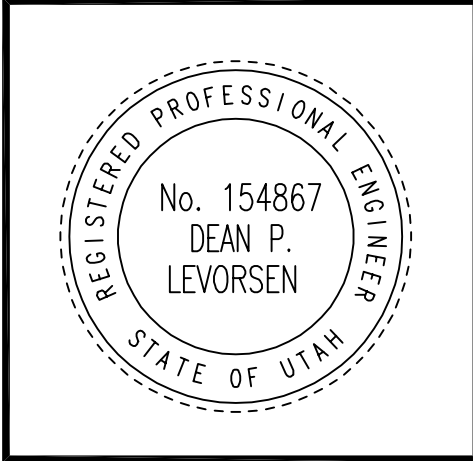
* PROVIDE EMERGENCY BATTERY UNIT FOR EACH EGRESS FIXTURE.
USE SPECIFIED FIXTURES OR APPROVED EQUAL.
SEE SHEET #AE-1105 REFLESCCTD CEILING PLAN FOR FIXTURE LAYOUT W/ MECHANICAL EQUIPMENT.

INDEX OF ELECTRICAL DRAWINGS	
E1.1	SYMBOLS, SCHEDULES AND NOTES
E2.1	LIGHTING AND POWER PLAN
E3.1	POWER PLAN

VINCENT DESIGN GROUP, INC.
ARCHITECTS AND PLANNERS

VDG

401 EAST 1700 SOUTH, SALT LAKE CITY, UTAH (801) 484-2046



REMODEL TO:

NATIONAL GUARD ARMY
TOOELE FACILITY

300 EAST VINE STREET
TOOELE, UTAH

ELECTRICAL NOTES & SCHEDULES

ARCH. PROJECT NO06-55
DATE:10/20/06
DRAWN BY:JSI
CHECKED BY:
DESIGNED BY:

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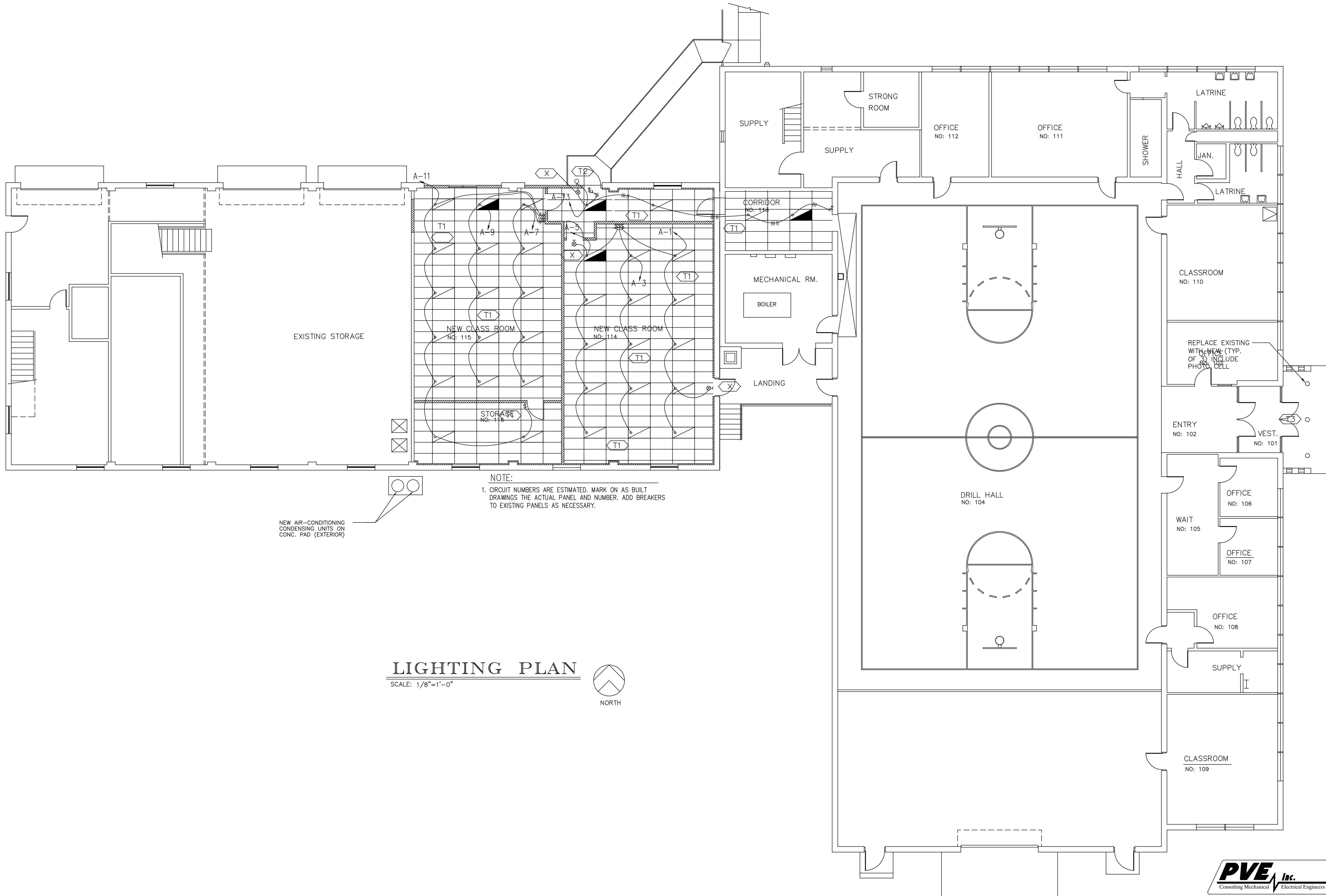
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E 1 . 1



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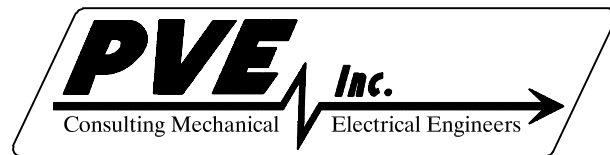


NEW AIR-CONDITIONING
CONDENSING UNITS ON
CONC. PAD (EXTERIOR)

NOTE:
1. CIRCUIT NUMBERS ARE ESTIMATED. MARK ON AS BUILT
DRAWINGS THE ACTUAL PANEL AND NUMBER. ADD BREAKERS
TO EXISTING PANELS AS NECESSARY.

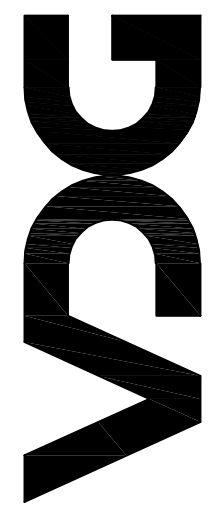
LIGHTING PLAN

SCALE: 1/8"=1'-0"



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REMODEL TO:
**NATIONAL GUARD ARMORY
TOOELE FACILITY**

300 EAST VINE STREET
TOOELE, UTAH

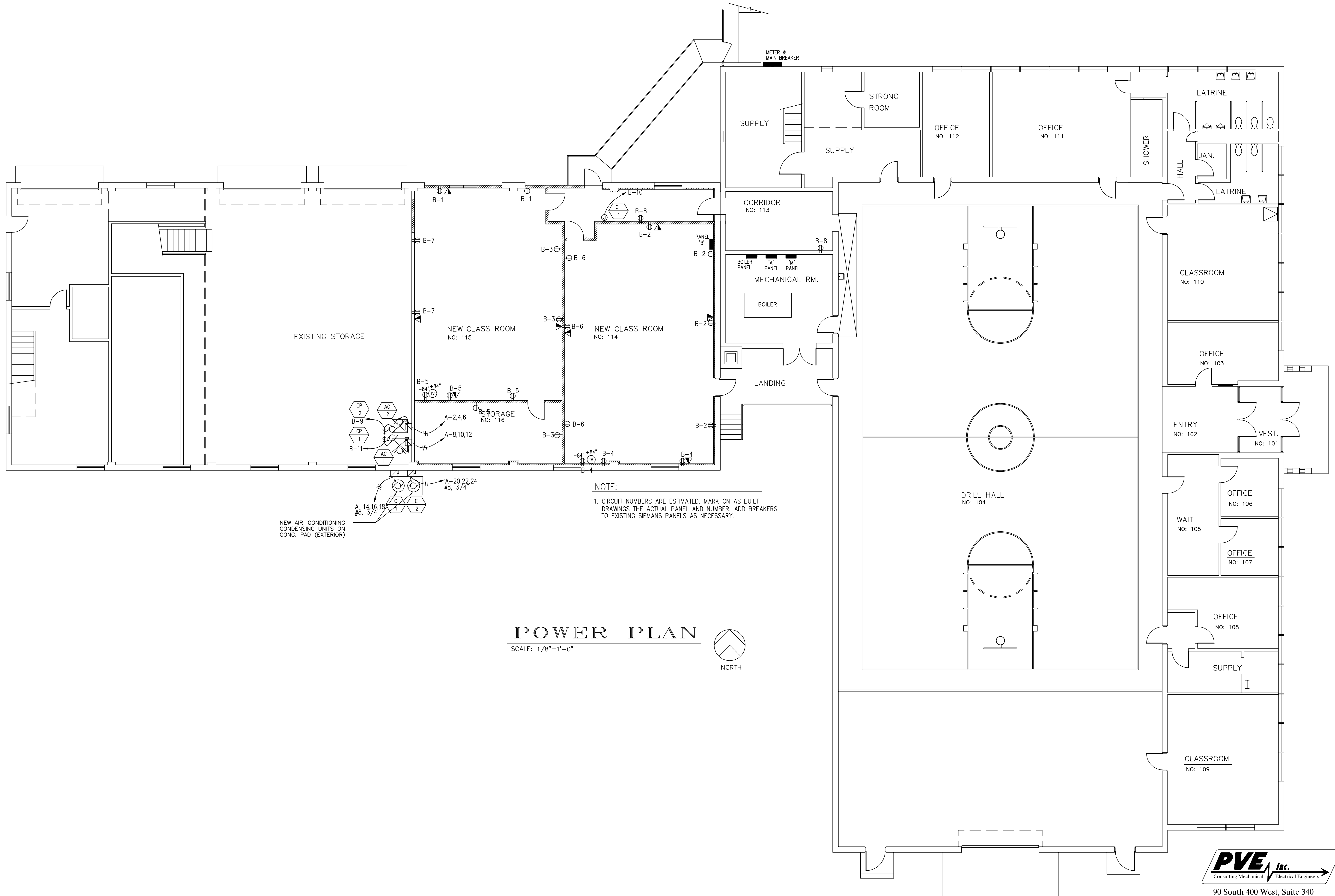
LIGHTING PLAN

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E2.1



NEW AIR-CONDITIONING
CONDENSING UNITS ON
CONC. PAD (EXTERIOR)

EXISTING STORAGE

NEW CLASS ROOM
NO: 115

NEW CLASS ROOM
NO: 114

STORAGE
NO: 116

SUPPLY

STRONG
ROOM

OFFICE
NO: 112

OFFICE
NO: 111

SHOWER

LATRINE

JAN.

LATRINE

CLASSROOM
NO: 110

OFFICE
NO: 103

ENTRY
NO: 102

VEST.
NO: 101

OFFICE
NO: 106

OFFICE
NO: 107

WAIT
NO: 105

OFFICE
NO: 108

SUPPLY

CLASSROOM
NO: 109

CORRIDOR
NO: 113

MECHANICAL RM.

BOILER

LANDING

DRILL HALL
NO: 104

NOTE:
1. CIRCUIT NUMBERS ARE ESTIMATED. MARK ON AS BUILT
DRAWINGS THE ACTUAL PANEL AND NUMBER. ADD BREAKERS
TO EXISTING SIEMANS PANELS AS NECESSARY.

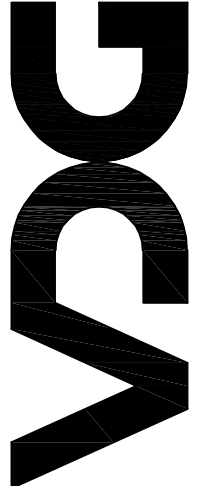
POWER PLAN

SCALE: 1/8"=1'-0"

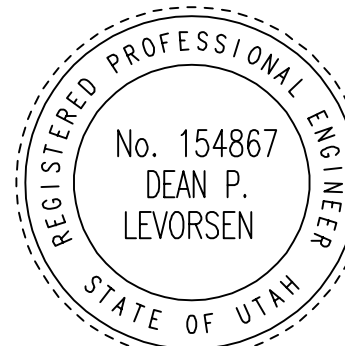


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**NATIONAL GUARD ARMORY
TOOELE FACILITY**

300 EAST VINE STREET
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POWER PLAN

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